



# COMMONWEALTH of VIRGINIA

DEPARTMENT OF WASTE MANAGEMENT

11th Floor, Monroe Building

101 N. 14th Street

Richmond, Va. 23219

ORIGINAL  
(Red)

## PRELIMINARY ASSESSMENT

OF

## TRANS-CIRCUITS

VA - 347

Submitted By:

Commonwealth of Virginia

Bureau of Solid Waste Management

December 22, 1986

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## 1.0 INTRODUCTION

### 1.1 Site Location

The Trans-Circuits facility is located within an industrial complex at 3509 Carlyn Spring Road, Falls Church, Virginia (Figure 1), approximately 0.25 miles (.4 km) south of Columbia Pike (S.R. 244). The site is situated within Fairfax County near the city of Alexandria and Arlington County limits. The site coordinates are 38°50'57" N., 77°07'28" W. (Alexandria, Virginia 7.5' topographic quadrangle).

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### 1.2 Site History

Trans-Circuits, Inc. began an electroplating operation on this site in 1964. The facility manufactured printed circuit boards for the Department of Defense and for commercial clients until operations ceased in November, 1985 and the facility was completely closed down in September, 1986.

Trans-Circuits obtained interium status under the Resource Conservation and Recovery Act (RCRA) on November 19, 1980. Interium status was terminated in October, 1984, and Trans-Circuits operated as a generator of hazardous waste until the facility closed.

Several allegations concerning the disposal of hazardous substances (wastes) have been levied against Trans-Circuits. There are allegations that questionable materials were sent to the Fairfax County Landfill on Interstate 66 on several occasions. Allegations concerning the release of hazardous substances (wastes) into the Fairfax County sewer line causing discoloration and corrosion have also been levied. However, no evidence has been received to ascertain the validity of these allegations. There have been no allegations of on site disposal of hazardous substances.

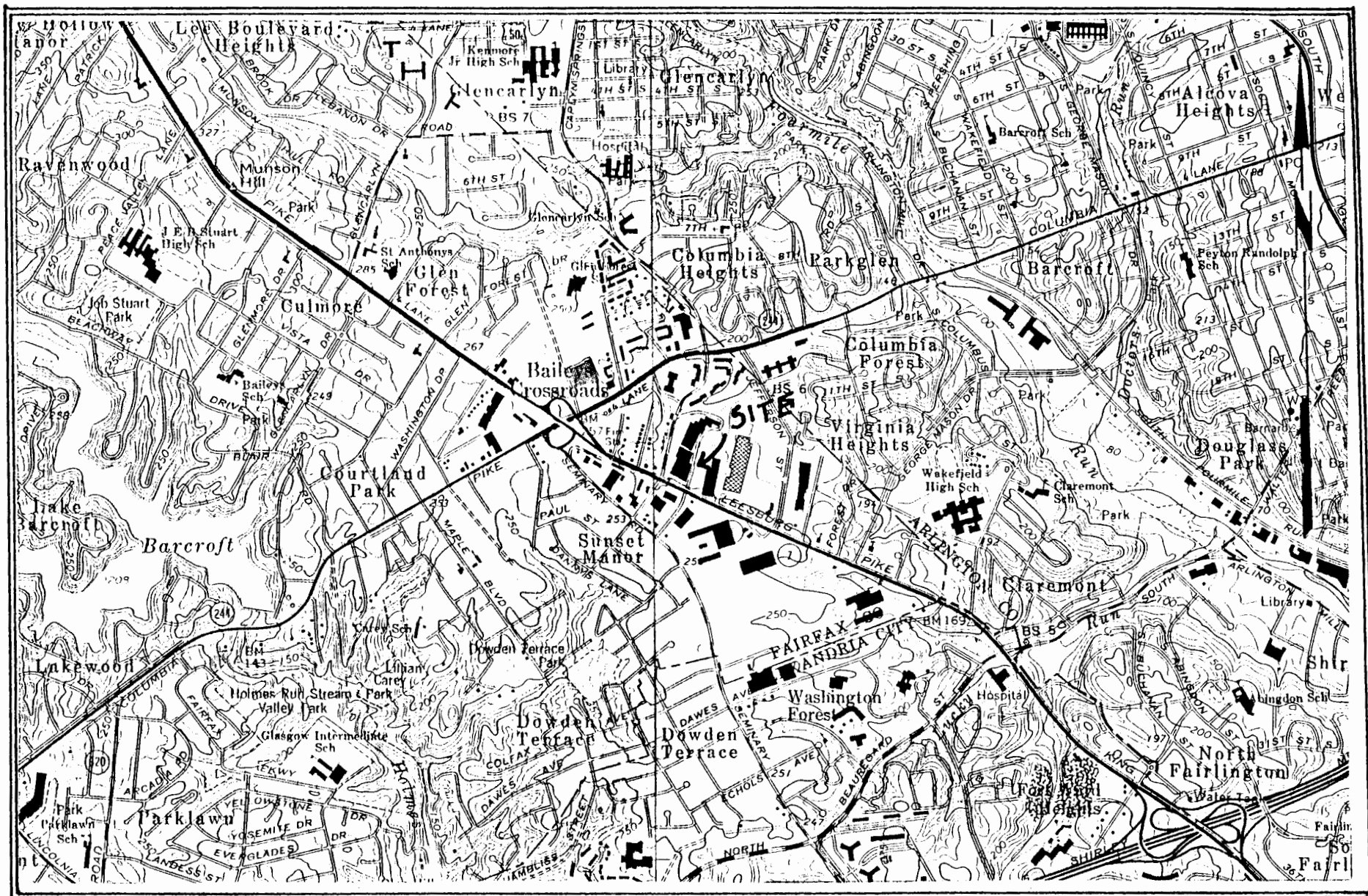
## 2.0 DEMOGRAPHICS

### 2.1 Population

The Trans-Circuits site is located in the city of Falls Church in Fairfax County, Virginia. The area of concern is a highly populated residential and light industrial area which includes the city of Falls Church, portions of the city of Alexandria, and portions of Fairfax and Arlington Counties. Based on 1980 census data, the population within a three-mile radius of the site is estimated to be 55,000.

### 2.2 Climate

The site is located at elevation 255 feet (MSL). The average annual precipitation measured by the NOAA weather observatory at Dulles Airport is 40.35 inches (102.49 cm). The annual mean temperature is 53.8°F (12.1°C).



scale 1"=24000'



COMMONWEALTH of VIRGINIA

TRANS-CIRCUITS, INC. SITE LOCATION PLAN

DRAWN BY:

REVIEWED:

DATE:

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FIGURE NO:

### 2.3 Land Use

The Trans-Circuits facility is located within a highly populated area of northern Virginia. The area immediately surrounding and within a three-mile radius of the site is a combination of light industry, commercial property, and residences.

### 3.0 SURFACE WATER

The Trans-Circuits site is located within a small industrial complex, and there are no surface water bodies immediately surrounding the site. Surface water runoff at the site is directed to the storm sewers that run along Carlyn Spring Road.

Lake Barcroft is located approximately one mile (1.6 km) southwest of the site. The lake was used as a source of water for the city of Alexandria until 1973, according to Mr. Jim Warfield, Fairfax County Water Authority.

Surface water is used as the primary source of domestic and industrial water for the counties of Fairfax and Arlington, and for the cities of Falls Church and Alexandria. However, all surface water that is used as a water source is located outside of the area of concern, and these water bodies are not hydraulically connected to the site.

### 4.0 HYDROLOGY

#### 4.1 Geology

The Trans-Circuits site is located at the western boundary of the Coastal Plain Physiographic Province of Virginia in the Fall Zone. The Fall Zone is the transitional area where the crystalline rocks of the Piedmont are overlain by the eastward dipping sediments of the Coastal Plain. Sediments in the Fall Zone tend to be irregularly bedded and discontinuous because of channelization by streams during and following deposition. The Fall Zone is characterized by an abrupt change in land elevation. This difference in elevation is displayed in the topography and by the change in velocities of the streams and rivers.

The Trans-Circuits site is situated on muscovite and biotite granite gneiss and diorite of an undetermined geologic age. The bedrock is overlain by Cretaceous sands and clays and is capped by Recent sands and gravels.

#### 4.2 Groundwater

Groundwater storage and movement in the Fall Zone occurs in the saprolite overlying the basement rocks; the thin onlapping, undifferentiated Coastal Plain sediments; and the underlying basement rocks (Ellison, 1979). The saprolite has hydrogeologic characteristics similar to unconsolidated sediments, but its permeability is considerably lower due to its non-transported nature and high clay content (Wigglesworth, 1984). The water-bearing capacity of the basement rocks depends upon the frequency and interconnection of the fractures. With depth, fractures decrease in frequency and size, and it is assumed that with depth, water-bearing fractures are rarely encountered.

Sediments and saprolite act as a recharge "sponge" slowly releasing water to the basement aquifer. The thickness of sediments and saprolite is usually directly related to the water-bearing capacity of the underlying rock.

No specific groundwater data is available for the Fall Zone portion of Fairfax County.

#### 5.0 WATER SUPPLY

The Trans-Circuits facility was served by the Fairfax County Water Authority as are all homes, industries, and commercial property within Fairfax County, according to Mr. Warfield. The Fairfax County Water Authority draws on the Occoquan Reservoir (Occoquan, Virginia 7.5' topographic quadrangle) and the Potomac River at the Loudoun-Fairfax County line for their water supply. According to Mr. Warfield, approximately two percent of the 200,000 residents of Fairfax County are served by private wells.

The city of Alexandria, according to Mr. Robert Iben, purchases water from Fairfax County to serve its residents and industrial needs. The city does have two wells which are located outside of the area of concern that are used during emergency conditions.

The city of Falls Church and Arlington County, according to Mr. Renn Nichols, purchase water from the U.S. Army Corps of Engineers. The source of the water is the Potomac River and the Dalecarlia Reservoir.

All surface water drawn upon as a domestic and industrial water supply is outside of the area of concern.

#### 6.0 Waste Type and Handling

Trans-Circuits, Inc. manufactured printed circuits boards. According to Mr. Stan Hynes of Trans-Circuits in Florida, the operations entailed electroplating, the finishing of metals, and the etching of circuit boards using acids.

Trans-Circuits obtained interim status under RCRA in November, 1980, but terminated status in October, 1984. Until the facility ceased to operate in September, 1986, the facility was categorized as a generator of hazardous waste under RCRA.

According to Mr. Bob Forman, Regional Consultant for the Virginia Department of Waste Management, an on site treatment facility was installed at Trans-Circuits in 1984. The treated water was then released to the county sewer line. There have been allegations that untreated waste water and chemicals were discharged directly into the sewer line causing corrosion and discoloration of the line. Evidence to substantiate the allegations of the release of hazardous substances (wastes) and chemicals into the county sewer line was sought by this Department, however, the County of Fairfax has not been forthcoming with the information. Subsequent attempts to obtain this information have been to no avail.

Allegations have also been levied that questionable materials were sent to the Fairfax County Landfill located on Interstate 66. Again, no evidence has been received to verify or negate the allegations.

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## 7.0 EXPOSURE ASSESSMENT

### 7.1 Groundwater

The potential for the introduction of hazardous and harmful substances into the groundwater from the Trans-Circuits, Inc. site is low. The facility operated inside of an industrial building, and outside of the building, asphalt and concrete covered the area. Groundwater usage in the area is minimal, therefore, the potential for exposure through groundwater is also minimal.

### 7.2 Surface Water

No surface water bodies are located in the area immediately surrounding the site. The Potomac River lies approximately five miles (8 km) east of the site, and Lake Barcroft is located approximately one mile (1.6 km) southwest of the Trans-Circuits site. Although surface water is the primary source of domestic and industrial water for the area of concern, the potential for contamination is low due to the directed surface water runoff from the site and Trans-Circuits' site relationship to important surface water bodies.

### 7.3 Direct Contact

Operations at Trans-Circuits took place inside of an industrial building. It is unclear as to whether or not the treatment facility was also housed within the operations building. Therefore, the potential for the exposure to the general public was limited.

### 7.4 Food Chain

There is a low potential for the introduction of harmful and hazardous substances into the animal and vegetable links of the food chain from this site.

### 7.5 Air

There appears that no threat of air releases of pollutants existed at this site. The Air Pollution Control Board has no record of a permit or a registration of Trans-Circuits, Inc.

## 8.0 FACILITY CLOSURE

Trans-Circuits, Inc. ceased their printed circuit board operations in November, 1985. The facility was completely shut down and all equipment was moved from their Carlyn Spring Road site in September, 1986.

Trans-Circuits contracted Eastern Chemical Waste Systems (ECWS) to assist in the cleanup of the operations building (Appendix B). ECWS sampled and analyzed 21 concrete cores taken from the floor in the operations building. The cores did not prove to be E.P. Toxic (Appendix C).

Specific information concerning the final evaluation of the contaminant levels of the floors in the operations building and the disposal of the floor is not known.

ECWS was also involved in the disposal of drummed wastes, labpacking and disposal of smaller containers of chemicals, and the disposal of bulk liquid waste from various tanks on the Trans-Circuits site (Appendix D).

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#### REFERENCES

Ellison, Russel P., III and Masiello, Remo A. Groundwater Resources of Hanover County, Virginia, State Water Control Board, Planning Bulletin 314, 1979.

Wigglesworth, Haywood A., Perry, Timothy W., Ellison, Russel P., III, Groundwater Resources of Henrico County, Virginia, State Water Control Board, Planning Bulletin 328, 1984.

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Appendix A  
EPA Preliminary Assessment Forms

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POTENTIAL HAZARDOUS WASTE SITE  
PRELIMINARY ASSESSMENT  
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
VA 347

II. SITE NAME AND LOCATION

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01 SITE NAME (Legal, common, or descriptive name of site) Trans-Circuits, Inc.		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER 3509 Carlyn Spring Road			
03 CITY Falls Church	04 STATE VA	05 ZIP CODE 22041	06 COUNTY Fairfax		07 COUNTY CODE 08 CONG DIST
09 COORDINATES LATITUDE 38° 50' 57" N.		LONGITUDE 77° 07' 28" W.		Alexandria 7.5' topographic quadrangle	
10 DIRECTIONS TO SITE (Starting from nearest public road) Facility is located off of Route 1, approximately .25 miles (.4 km) south of Columbia Pike (State Route 244).					

III. RESPONSIBLE PARTIES

01 OWNER (If known) Hardin Corporation		02 STREET (Business, mailing, residential) 6400 Arlington Blvd.			
03 CITY Falls Church	04 STATE VA	05 ZIP CODE 22046	06 TELEPHONE NUMBER (703) 241-3290		
07 OPERATOR (If known and different from owner) facility is closed		08 STREET (Business, mailing, residential)			
09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER ( )		
13 TYPE OF OWNERSHIP (Check one) <input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL: _____ (Agency name) <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER: _____ (Specify) <input type="checkbox"/> G. UNKNOWN					
14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply) <input checked="" type="checkbox"/> A. RCRA 3001 DATE RECEIVED: <u>11/19/80</u> <input type="checkbox"/> B. UNCONTROLLED WASTE SITE (RCRA 103 c) DATE RECEIVED: _____ <input type="checkbox"/> C. NONE MONTH DAY YEAR MONTH DAY YEAR					

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION <input checked="" type="checkbox"/> YES DATE <u>10/07/86</u> <input type="checkbox"/> NO MONTH DAY YEAR		BY (Check all that apply) <input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input checked="" type="checkbox"/> C. STATE <input type="checkbox"/> D. OTHER CONTRACTOR <input type="checkbox"/> E. LOCAL HEALTH OFFICIAL <input type="checkbox"/> F. OTHER: _____ (Specify) CONTRACTOR NAME(S): _____			
02 SITE STATUS (Check one) <input type="checkbox"/> A. ACTIVE <input checked="" type="checkbox"/> B. INACTIVE <input type="checkbox"/> C. UNKNOWN		03 YEARS OF OPERATION <u>1964</u>   <u>Nov. 1985</u> BEGINNING YEAR ENDING YEAR <input type="checkbox"/> UNKNOWN			
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED (see attached page) Spent solvents, electroplating sludges, chromic acid, Alkaline etchants, MacDermid, 9066 chromic etch, copper sulfate, sulfuric acid, liquid caustic soda, HCL, Dyna-chem Lac 4100, ammonium persulfate, fluorboric acid, Dynachem 160, MacDermid 9080					
05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION Potential Fairfax County sewer line contamination.					

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents) <input type="checkbox"/> A. HIGH (Inspection required promptly) <input type="checkbox"/> B. MEDIUM (Inspection required) <input type="checkbox"/> C. LOW (Inspect on time available basis) <input checked="" type="checkbox"/> D. NONE (No further action needed, complete current disposition form)			
--	--	--	--

VI. INFORMATION AVAILABLE FROM

01 CONTACT P.M. Ewald		02 OF (Agency/Organization) Department of Waste Management		03 TELEPHONE NUMBER (804) 225-2667	
04 PERSON RESPONSIBLE FOR ASSESSMENT L.M. Clark		05 AGENCY DWM	06 ORGANIZATION Superfund	07 TELEPHONE NUMBER (804) 225-2667	08 DATE <u>10/07/86</u> MONTH DAY YEAR



POTENTIAL HAZARDOUS WASTE SITE  
PRELIMINARY ASSESSMENT  
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
VA 347

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☒ A. SOLID  
☒ B. POWDER, FINES  
☒ C. SLUDGE  
☐ D. OTHER \_\_\_\_\_  
(Specify)
- ☒ E. SLURRY  
☒ F. LIQUID  
☐ G. GAS

02 WASTE QUANTITY AT SITE

(Measure of waste quantities must be independent)

TONS 24000 kg

CUBIC YARDS \_\_\_\_\_

NO. OF DRUMS \_\_\_\_\_

03 WASTE CHARACTERISTICS (Check all that apply)

- ☒ A. TOXIC  
☒ B. CORROSIVE  
☐ C. RADIOACTIVE  
☐ D. PERSISTENT  
☐ E. SOLUBLE  
☐ F. INFECTIOUS  
☒ G. FLAMMABLE  
☐ H. IGNITABLE  
☐ I. HIGHLY VOLATILE  
☐ J. EXPLOSIVE  
☐ K. REACTIVE  
☐ L. INCOMPATIBLE  
☐ M. NOT APPLICABLE

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III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			unknown quantities
OLW	OILY WASTE			
SOL	SOLVENTS			unknown quantities
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			unknown quantities
BAS	BASES			unknown quantities
MES	HEAVY METALS			unknown quantities

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently used CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
ACD	Hydrochloric acid	7647-01-0			
ACD	Sulfuric acid	7664-93-9			
BAS	Sodium hydroxide	1310-73-2			
SOL	Methylene oxide	50-00-0			
SOL	toluene	108-88-3			
SOL	Methyl ethyl ketone	78-93-3			
SOL	Xylene	1330-20-7			
IOC	Sodium cyanide	143-33-9			
SOL	methylene chloride	75-09-2			
SOL	Ethyl acetate	141-78-6			
SOL	1,1,1 trichloroethane	25323-89-7			
SOL	trichloroethylene	79-01-6			
SOL	acetone				
	SEE ATTACHED PAGE				

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports.)

State files, site visit, Mr. Stan Hynes-Trans-Circuits, Inc.

Recyclable Chemicals:

Alkaline Etchants  
MacDermid 9066 Chromic Etch  
Copper Sulphate-Manufactured Product

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Chemicals In Returnable Containers:

Sulfuric Acid 66 Degrees	Hunt Finishing Solution
Liquid Caustic Soda	Hunt 12N Starter
HCL	Triple rinsed and split apart to sanitary land fill.

Chemicals in containers:

Dynachem Lac 4100	Plastic
Ammonium Persulfate	Fiber Drum
Flourboric Acid	Metal Drum
Dynachem 160	Plastic
MacDermid neutralizer 9080	Plastic
Dynachem Predip	Plastic
" Conditioner 101	Plastic
" Activator	Plastic
" 825R	Plastic
" 825A	Plastic
" 825B	Plastic
" SA A	Plastic
" SA B	Plastic
" 99A	Plastic
" 400K Stripper	Plastic
Electro Strip	Plastic
Nickle Sulfamate Containers	Plastic
LPC Replenishing	Plastic
Cubath HY-M	Plastic
Calcium Chloride	Paper
Sodium Hydrosulfite	Metal
Harshaw CX-A	Plastic
Harshaw CX-B	Plastic
Inland Chemical AP-624	Plastic
Stanous Fluoborate	Metal
Lead Fluoborate	Plastic
HL-21	Plastic

Chemicals in containers continued:

SN/PB 2000	Plastic
Cu 545 Flux	Plastic
CO-BA-Sol	Plastic
Nitric Acid	Glass
HCL	Glass
Ammonium Hydroxide	Glass
Boric Acid	Paper
Liquid Alkaline Strip 143	Plastic
Lectro 1003 Wetting Agent	Plastic
Lectro Nic Anode activator	Plastic
Ammonium Chloride	Paper

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Chemical Containers used to ship Electroplating Sludge:

Inland Chemical	AP-80 Defoamer #2
Screen Wash 512	Haviland Pre-up C



POTENTIAL HAZARDOUS WASTE SITE  
PRELIMINARY ASSESSMENT  
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
VA 347

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☐ A. GROUNDWATER CONTAMINATION  
03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_

02 ☐ OBSERVED (DATE: \_\_\_\_\_)  
04 NARRATIVE DESCRIPTION

☐ POTENTIAL ☐ ALLEGED

*None expected*

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01 ☐ B. SURFACE WATER CONTAMINATION  
03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_

02 ☐ OBSERVED (DATE: \_\_\_\_\_)  
04 NARRATIVE DESCRIPTION

☐ POTENTIAL ☐ ALLEGED

*None expected*

01 ☐ C. CONTAMINATION OF AIR  
03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_

02 ☐ OBSERVED (DATE: \_\_\_\_\_)  
04 NARRATIVE DESCRIPTION

☐ POTENTIAL ☐ ALLEGED

*None reported*

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS  
03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_

02 ☐ OBSERVED (DATE: \_\_\_\_\_)  
04 NARRATIVE DESCRIPTION

☒ POTENTIAL ☐ ALLEGED

*Facility is abandoned. Potential may have existed.*

01 ☐ E. DIRECT CONTACT  
03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_

02 ☐ OBSERVED (DATE: \_\_\_\_\_)  
04 NARRATIVE DESCRIPTION

☐ POTENTIAL ☐ ALLEGED

*None expected*

01 ☐ F. CONTAMINATION OF SOIL  
03 AREA POTENTIALLY AFFECTED: \_\_\_\_\_  
(ACRES)

02 ☐ OBSERVED (DATE: \_\_\_\_\_)  
04 NARRATIVE DESCRIPTION

☐ POTENTIAL ☐ ALLEGED

*None expected*

01 ☐ G. DRINKING WATER CONTAMINATION  
03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_

02 ☐ OBSERVED (DATE: \_\_\_\_\_)  
04 NARRATIVE DESCRIPTION

☐ POTENTIAL ☐ ALLEGED

*None expected*

01 ☐ H. WORKER EXPOSURE/INJURY  
03 WORKERS POTENTIALLY AFFECTED: \_\_\_\_\_

02 ☐ OBSERVED (DATE: \_\_\_\_\_)  
04 NARRATIVE DESCRIPTION

☒ POTENTIAL ☐ ALLEGED

*Facility is abandoned. Potential may have existed.*

01 ☐ I. POPULATION EXPOSURE/INJURY  
03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_

02 ☐ OBSERVED (DATE: \_\_\_\_\_)  
04 NARRATIVE DESCRIPTION

☐ POTENTIAL ☐ ALLEGED

*None reported*



POTENTIAL HAZARDOUS WASTE SITE  
PRELIMINARY ASSESSMENT  
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
VA 347

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA  
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

None expected or reported

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01 ☐ K. DAMAGE TO FAUNA  
04 NARRATIVE DESCRIPTION (Include name(s) of species)

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

None expected or reported

01 ☐ L. CONTAMINATION OF FOOD CHAIN  
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

None expected

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES  
(Spills/runoff/standing liquids/leaking drums)

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☒ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_

04 NARRATIVE DESCRIPTION

Allegations that questionable materials had been sent to the Fairfax County Land-fill on Interstate 66.

01 ☐ N. DAMAGE TO OFFSITE PROPERTY  
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

None expected or reported

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs  
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☒ ALLEGED

Allegations that releases of Hazardous substances (wastes) and chemicals were discharged directly into the sewer line causing corrosion and discoloration.

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING  
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

None expected or reported

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e. g., state files, sample analysis, reports)

State files, site visit, Mr. Stan Hynes-Trans-Circuits, Inc., Bob Forman- Regional Consultant for Bureau of Solid Waste



## FIELD TRIP SUMMARY REPORT

This summary should be prepared in conjunction with the Preliminary Assessment, EPA Form 2070-12.

EPA Case Number VA-347

Site Name Trans-Circuits, Inc.

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### Site Description

*Trans-Circuits, Inc. occupied two sections of an industrial complex in Falls Church. The building was secured. The floors were tiled. The area outside of the building is covered with asphalt and concrete.*

Area of site (acres)

*2*

Hazardous portion, if not entire site

*unknown*

Description of processes/operations which took place at the site

*Manufacturer of printed circuit boards for Department of Defense and commercial clients.*

Waste handling/disposal practices

*Trans-Circuits was regulated under RCRA as a generator of hazardous waste.*

Site topography and runoff drainage pathways

*Surface water runoff from the site is directed to a county storm sewer.*

Surface or subsurface drainage areas (leachate) noted?

*None*

Odors/stains noted?

*none*

Stressed vegetation noted?

*none*

Location and description of streams or receiving waters adjacent to site. Include flow direction and observations. Note location on attached map.

*There are no streams in the immediate area surrounding the site.*

Monitoring wells on site or in vicinity. Note location on attached map.

*None*

Population within $\frac{1}{4}$ mile of site: <input type="checkbox"/> 0-10 <input type="checkbox"/> 10-100 <input checked="" type="checkbox"/> greater than 100	Population within 1 mile of site: <input type="checkbox"/> 0-10 <input type="checkbox"/> 10-100 <input type="checkbox"/> 100-1000 <input checked="" type="checkbox"/> greater than 1000	
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Surrounding land use (woodlot, agricultural, recreation, industrial, etc.)		
NORTH <div style="text-align: center; margin-top: 10px;"><i>industrial</i></div>	EAST <div style="text-align: center; margin-top: 10px;"><i>commercial</i></div>	
SOUTH <div style="text-align: center; margin-top: 10px;"><i>industrial</i></div>	WEST <div style="text-align: center; margin-top: 10px;"><i>residential</i></div>	
Municipal water supply within 3-mile radius (note use of surface water and/or wells) <i>The area of concern includes the city of Falls Church, portions of the city of Alexandria, and portions of Fairfax and Arlington Counties. All areas are served by surface water bodies located outside of the area of concern.</i>		
Reference:		
Domestic wells. Approximate number within $\frac{1}{4}$ mile: List nearest downgradient wells below and show locations on attached map.		
Owner/Resident	Address	Phone
Groundwater flow direction, if known <div style="text-align: center; margin-top: 10px;"><i>Not known</i></div>		
Description of odor/taste problems		

State inspection activity (including permits held)  <i>Facility terminated interium status with RCRA in October, 1984.</i>
State/Federal/Private remedial activities  <i>GZA Armac-during closure of the facility</i> <i>Eastern Chemical Waste Systems-during closure of the facility</i>

Additional comments--Further description of site

ORIGINAL  
(Red)

#### SITE CONTACTS

Name and Title	Affiliation	Phone
Logan Sturgeon	Hardin Corporation	703-241-3290
Scott Whitney ..	attorney-Hardin Corp.	703-841-2620

#### INSPECTION INFORMATION

Name and title of inspector(s) K.L. Nuckols-geologist, L.M. Clark-geologist

Agency Superfund Phone number (804)225-2667

Date October 7, 1986 Time on site 4:00-5:30 p.m.

Weather conditions: Clear and 70°F

#### ATTACHMENTS

- o Topographic map identifying site location. Include name of quadrangle map.
- o Site sketch map showing location of monitoring wells, domestic wells, municipal water supplies, and areas of concern (lagoons, leachate seeps, drums, etc.)
- o Any available sampling results or state monitoring data with map showing sample locations.

ORIGINAL  
(Red)

Appendix B  
Correspondence



# EASTERN CHEMICAL WASTE SYSTEMS

*management of environmental preservation™*

Remedial Action, Handling, Underground Tank Clean-up & Removal, Hauling, Incineration, Disposal, Drum Crushing, Recycling, Emergency Spill Response, Laboratory Analytical Services, Detoxification  
USEPA IDENTIFICATION NO. DCD981035504

Facility address/shipping only:  
2619 Evarts Street, N.E.  
Washington, D.C. 20018

November 7, 1986

mailing address  
Box 13085  
Washington, D.C. 20009  
*ORIGINAL*

Ms. Lisa Clark  
SuperFund  
VA Department of Waste  
Management  
11th Floor, Monroe Building  
101 North Fourteenth Street  
Richmond, VA 23219



Dear Lisa:

Enclosed are photocopies of materials from our Transcircuits closure cleanup file. As I mentioned on the phone ECWS was originally contracted to handle the complete cleanup. In actuality however we performed only the following tasks:

- o Disposal of drummed wastes
- o Labpacking and disposal of smaller containers of chemicals
- o Disposal of bulk liquid waste from various tanks
- o Sampling and analysis of core samples from 21 spots on the concrete pad.

ECWS was not involved in the final evaluation of contamination levels of the floors or pad nor in the disposal of concrete from the pad.

I have enclosed:

- o Manifest copies from our shipments after Transcircuits ceased operation.

Toll Free: 1-800-826-0518

Main Office in DC: (202) 636-9555

New York Office: (212) 242-3349

Pittsburgh Office: (412) 941-1229

Elizabeth, NJ: (201) 352-6550

Baltimore, MD: (301) 625-2500

Eastern Chemical Waste Systems is a division of TSCGI



Ms. Lisa Clark  
November 7, 1986  
Page Two

- o Correspondence between ECWS and Transitron Electronics about the concrete pad and floors
- o Analytical results on the concrete pad.

**ORIGINAL**  
**(Red)**

Most other correspondence involved only contract administration and should be uninteresting to the EPA. I would be happy to release all such correspondence upon request.

Sincerely,

Norb Dickmann, chemist  
Chemical Consultant to Sales

cc: Mark V. Soresi, President, ECWS-HQ

EAPO.ND:nj4



# COMMONWEALTH of VIRGINIA

## DEPARTMENT OF WASTE MANAGEMENT

11th Floor, Monroe Building

101 N. 14th Street

Richmond, Va. 23219

ORIGINAL  
(Red)

Norb Dickmann, Chemical Consultant  
Eastern Chemical Waste Systems  
1101 14th Street Northwest  
Suite 620  
Washington, D.C. 20005

OCT 16 1986



Dear Mr. Dickmann:

Per your request during our telephone conversation on 9 October, 1986, this letter serves as a formal request for information concerning Eastern Chemical Waste Systems activities at the Trans-Circuits, Inc. facility, 3509 Carlyn Spring Road, Falls Church, Virginia.

The Commonwealth of Virginia is operating under a cooperative agreement, 104 (b)(d) Grant, with USEPA Region III for pre-remedial activities in the state of Virginia. With the enactment of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, Section 103 (c), the USEPA and/or the Commonwealth of Virginia has the legal authority to request information concerning any activities at/on facilities dealing with hazardous substances. Under Section 103 (c) your company has the legal obligation to notify USEPA and the Commonwealth of "any known, suspected, or likely releases" of hazardous substances from this or any other facility.

In order to generate a complete Preliminary Assessment report for the Commonwealth and USEPA, I will need the following information:

- Site plan
- Eastern Chemical Waste Systems requested participation and extent of participation in the facility closure by Trans-Circuits, Inc.
- Samples analyses of soil and concrete
- Findings of activities on site

If you have any questions concerning this matter or any other matter, please feel free to call me (804) 225-2667.

Sincerely,

Lisa Marie Clark  
Superfund

9  
RECEIVED SEP 10 1985



## TRANS/CIRCUITS, Inc.

P.O. BOX 8248 • 3509 CARLYN SPRING ROAD • FALLS CHURCH, VIRGINIA 22041 • PHONE: (703) 820-6405  
TWX: 710-831-0637

September 6, 1985

Mr. Jimmie D. Jenkins  
Industrial Waste Section  
Lower Potomac Pollution Control Plant  
P.O. Box 268  
Lorton, VA 22079

Dear Mr. Jenkins,

The monitoring report for August 1985 is enclosed per your request.

As requested by Ms. Schaeffer in her letter of August 15, 1985 we have started weekly laboratory analysis by an outside laboratory to comply with the monitoring requirements of our discharge permit until we can complete our EPA certification testing.

We will continue to supply our daily results but the analysis by Lapteff Associates will be our official submission to the requirements.

Lapteff Sample A was sampled on August 23. The sample S-A is the same August 23 sample with 2 mg/l copper, 1 mg/l chromium and 2 mg/l nickel added to it.

During the weekend of August 18, 19, 1985 we placed the new Lancy System on line. Your staff conducted a 4 day monitoring of its performance on August 26-29, 1985. We have sent samples to Lapteff Associates for each of these days and will supply their results as soon as they are recieved.

We are very pleased with the new systems results.

Sincerely yours,

Theodore A. Edwards  
Vice President Engineering





## TRANS/CIRCUITS, Inc.

P.O. BOX 8248 • 3509 CARLYN SPRING ROAD • FALLS CHURCH, VIRGINIA 22041 • PHONE: (703) 820-6405  
TWX: 710-831-0637

(10)

### CERTIFICATION

ORIGINAL  
(Recd)

I have personally examined and am familiar with the information submitted in the attached document, and I hereby certify under penalty of law that the information was obtained in accordance with the requirements of 40 CFR Section 403.12 and 40 CFR Part 136. Moreover, based upon by inquiry of those individuals immediately responsible for obtaining the information reported herein, I believe that the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Talaat El-Hotiby

Talaat El-Hotiby  
Supervisor, Chemical Process  
Engineering

Ted Edwards

Ted Edwards  
Vice President, Engineering

OPERATOR: WTHOMAS

THURSDAY AUGUST 15, 1985

1. STARTED WASTE TREATMENT SYSTEMS AT 7 AM
2. CLEANED AND CALIBRATED PH METERS
3. WASTING SLUDGE FROM CLARIFIER TO THE THICKENER
- ★ ★ 4. THE FINAL EFFLUENT MONITOR WAS READING ~~ON~~ FLOW OF 7% AT 7:30 AFTER CALIBRATION OF THE PH METER AND A PH OF 2 BUT THERE WAS NO FLOW. ATTEMPTED TO ADJUST THE '0' ON THE FLOW RECORDER, BUT GOT SOME STRANGE REACTIONS FROM BOTH THE PH AND FLOW RECORDERS. HIGH HUMIDITY INSIDE OF CONTROL PANE MAY BE HAVING SOME EFFECT ON READINGS.
5. THE FINAL EFFLUENT REMAINS CLOUDY TODAY HARD TIME TRYING TO DETERMINE <sup>MAIN</sup> WITNESS THE SLUDGE BLANKET IS IN THE CLARIFIER
6. SHUT DOWN WASTE TREATMENT SYSTEM AT 8 PM AND COLLECTED FINAL EFFLUENT SAMPLE.

### TODAYS LOG REVIEW

HIGH PH = 9.8  
LOW PH = 2.0  
HIGH 3 MIN FLOW = 160 GPM  
TOTAL FLOW = 34,370  
HOURS OF OPERATION = 7 AM TO 8 PM  
CHART SPEED = 50 CM/HR



COMMONWEALTH OF VIRGINIA  
**COUNTY OF FAIRFAX**  
DEPARTMENT OF PUBLIC WORKS  
PENDER MILL BUILDING  
3930 PENDER DRIVE  
FAIRFAX, VIRGINIA 22030



February 11, 1987

Ms. Lisa Marie Clark  
Virginia Department of Waste Management  
11th Floor, Monroe Building  
101 N. 14th Street  
Richmond, Virginia 23219



Dear Ms. Clark,

In response to your request, enclosed are copies of analytical results, written correspondence, and office notes related to the Trans/Circuits operation at 3509 Carlyn Springs Road. The enclosed represents roughly 15 percent of our Trans/Circuits records.

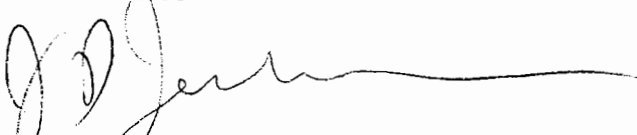
Regarding prior tenancy, we initiated our file on Trans/Circuits in 1973--Trans/Circuits commenced operations at subject location in 1967. The prior tenant (Melpar Division of E-Systems, Inc.) developed and manufactured circuit boards from 1961 to 1967. We have no information on releases to the sanitary sewer prior to 1973.

The record reveals violations of Fairfax County's sewer use ordinance (Chapter 67 of the Fairfax County Code) including discharge of wastes outside the pH range of 5.5 to 10.0 and exceeding limitations for lead and copper. The record further suggests illegal discharge of toxic organics; however, the County was unable to obtain sufficient evidence for legal action. Finally, the record reveals the owner's investigation for possible contamination of the building interior with toxic metals.

If you have any questions regarding the enclosed information please feel free to contact Mr. Paul Obst at telephone number (703)550-9740, ext. 318.

Sincerely,

DEPARTMENT OF PUBLIC WORKS

  
J. D. Jenkins, Director  
Wastewater Treatment Division

JDJ:PMO:cbl

Ms. Lisa Marie Clark  
February 11, 1987  
Page 2

cc: Elaine Schaeffer, Director, Laboratory Services, w/out encl. <sup>Off</sup>  
Erin Ward, County Attorney's Office, w/out encl. <sup>(Rec)</sup>  
IWS File



COMMONWEALTH OF VIRGINIA  
COUNTY OF FAIRFAX  
FAIRFAX, VIRGINIA 22030



September 2, 1975

Joseph E. LaLiberte, General Manager  
Trans/Circuits, Inc.  
3509 Carlyn Spring Road  
Falls Church, Virginia 22041

Dear Sir:

At various times in the past two years your firm has been visited by representatives of Fairfax County Department of Public Works. Their purpose was to survey your liquid waste discharges to the County sewer system. Through these informal talks your firm has been made aware of its obligations under Public Law 92-500 and Chapter 22 of the Fairfax County Code to reduce or eliminate toxic discharges and prevent the discharge of other prohibited wastes. Your firm has been urged to initiate voluntary corrective procedures which would bring your discharges into compliance with the Federal, State and County laws.

Recent inspection of sanitary sewer lines along Carlyn Spring Road have revealed structure damages caused by chemicals in the flows. Analysis of discharges from your plant show levels of heavy metals and other pollutants significantly above allowable limits of concentrations.

Your attention is directed to Section 22-11 (b) of the Fairfax County Code pertaining to industrial wastes which states in part:

"Waste products from manufacturing or industrial operations shall not be introduced into the public sewer system until it has been determined . . . . that the introduction thereof will not cause damage to the public sewer system or interfere with the functioning of the sewage treatment plant."

Section 22-11 (c) states that: "no person shall discharge any waters or wastes having a pH lower than 5.5 or higher than 10.0, or having any other corrosive properties capable of causing damage to structures of the sewerage system. In addition, any wastes or waters containing toxic or poisonous substances are also prohibited if they are discharged in sufficient quantities to cause a health hazard or interfere with any sewage treatment process."

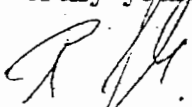
Trans/Circuits, Inc. is therefore directed to submit a plan of corrective action to this Department which will outline what steps it will take to reduce these toxic elements and eliminate the harmful and damaging discharges. Target dates for completion of each phase are to be included. These plans should include details on pretreatment methods for all chemicals used in

your printed circuit and metal finishing operations which you intend to discharge to the sanitary sewers. This includes rinse waters; photochemical wastes; any spent solutions such as mineral acid and ammonium persulfate baths; and especially methods of disposal of your spent copper etchants. Thought should also be given to water saving and/or water re-use processes wherever they have practical applications within your operations. Any proposed changes must also comply with applicable building, electrical, and plumbing regulations. ORIGINAL  
(Red)

Your corrective action plan should be submitted to this office for review by November 1, 1975.

If there are any questions or if the County can be of any assistance, feel free to contact this office.

Very truly yours,



RICHARD J. GOZIKOWSKI, Director  
Wastewater Treatment Division  
Office of Waste Management  
Department of Public Works

cc: G. G. Ehrich  
✓ J. H. Liedl  
A. T. Roby

FAIRFAX COUNTY, VIRGINIA

Thru: Glen G. Ehrich, Director  
Department of Public Works

J. H. Liedl, Director  
Office of Waste Management

MEMORANDUM

TO: F. Lee Ruck  
County Attorney

DATE August 25, 1973

FROM: R. J. Gozikowski, Director  
Wastewater Treatment Division

FILE NO:

SUBJECT: Request for Initiation of Legal Action against Trans/Circuits, Inc.

REFERENCE:

Attached is a correspondence file containing information related to the County's efforts to obtain cooperation from Trans/Circuits, Inc. in correcting problems associated with their industrial waste discharge into the County sewer system. Trans/Circuits is an electroplating firm which manufactures printed circuits. Our efforts in resolving this situation go back as far as 1973. I feel that we have been more than extremely patient and cooperative with Trans/Circuits; however, in return we have received no action other than continual promises.

Specifically, Trans/Circuits is in violation of sections 67-2-1-(c)7 (low pH) and 67-2-2-(a) (discharge of corrosive liquids) of the County Code. Due to the nature of their manufacturing process, extremely high levels of heavy metals (copper, lead, nickel) are discharged into the County sewer system. Maximum copper discharges have exceeded 2000 mg/l, whereas copper levels of 1.0 mg/l are known to be toxic to wastewater treatment plant organisms and natural occurring aquatic life.

Discharge of the Trans/Circuits' waste into the County system has caused severe damage to County lines and has caused operational problems at the Arlington County treatment plants, to which this flow is tributary.

Trans/Circuits is currently in the process of replacing their plumbing and laterals (which have been completely destroyed by their own corrosive wastes) with glass lined pipe. This action by Trans/Circuits indicates to us that the firm does not honestly intend to correct their corrosive waste discharge, since glass lined pipe will not deteriorate from acidic, corrosive liquid discharges.

ORIGINAL  
(Red)

Because we are unable to obtain voluntary cooperation from Trans/Circuits, we are hereby requesting initiation of legal action against this firm for violations of the Fairfax County Code to include levy of fines.

RJG:lr

Attachment

cc: G. G. Ehrich  
J. H. Liedl  
R. P. McMath  
✓ A. T. Roby  
G. Williams

C  
O  
P  
Y





IWS  
file

DATE 11-26-85

MEMO TO Elaine

FRI - Trans circuits had an accidental discharge  
of approximately 500 gallons of high Cr <sup>ORIGINAL (Red)</sup>  
Larry Muck notified IWS late Friday <sup>(Nov 22)</sup> afternoon  
by telephone. Attached is a follow up report

Ramona

(The discharge was from 2:00pm  
on Nov 20 to 2:30pm Nov 20.)

# TRANS/CIRCUITS, INC.

3509 Carlyn Spring Road, Falls Church, Virginia 22041 (703) 820-6405

November 26, 1985

Ms. Elaine Schaeffer  
Industrial Waste Division  
Lower Potomac Plant  
P.O. Box 268  
Lorton, VA 22079

Dear Ms. Schaeffer:

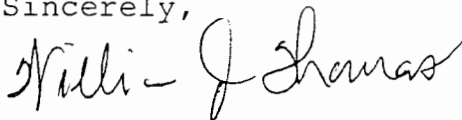
On Wednesday, November 20, 1985, at 2:00 p.m., I was informed that the clean-up personnel would be dumping some chemicals. The chemicals were suppose to be water rinses from the Chromic Acid tanks. At 2/30, I started adding extra amounts of sodium bisulfate to treat the chromium waste, changing it from hexavalent chromium ( $\text{Cr}^{+6}$ ) to trivalent chromium ( $\text{Cr}^{+3}$ ).

After the waste treatment system was started, on Thursday, November 21, 1985, I noticed the final effluent had a lime green color. Knowing that there was some type of upset, I went to the "recycle" mode for the waste treatment system.

Although the waste was treated several times it still had somewhat of a light green color, but there were very few solids in the effluent.

The results for the waste treatments final effluent for November 21, 1985, showed chromium to be 73.45 mg/l. After further investigation, by myself and others directly connected with the waste treatment, the investigation showed that the chromium was a concentrated dump rather than the rinses which it was said to have been.

Sincerely,



William J. Thomas  
Waste Treatment Operator

*See memo to Elaine S. from Ramona S. of telephone conversation with Larry Mock (call was two days after the fact) which provides volume and time.*

**TRANS/CIRCUITS, INC.**

3509 Carlyn Spring Road, Falls Church, Virginia 22041 (703) 820-6405

November 26, 1985

Ms. Elaine Schaeffer  
Industrial Waste Division  
Lower Potomac Plant  
P.O. Box 268  
Lorton, VA 22079

Dear Ms. Schaeffer:

This letter is intended to inform you of an accidental discharge of high chromium effluent on November 20, 1985.

The incident resulted from a mis-communication between the wet line persons rinsing tanks out, and the plant operator's understanding of what was being rinsed. The Waste Treat Operator was under the impression he was receiving rinse water only. Regrettably the rinse water also contained chromium sludge, which released a concentration of chromium surpassing his preparation for treatment.

Since the incident we have met as a group, with all individuals involved in the clean up process and discussed the ramifications of the problem which occurred on November 20th. I also stressed that similar types of situations would not be tolerated. The Waste Treatment Operator (William Thomas) now, with the wet line supervisor and our Process Engineer, will review all chemistry going to Waste Treat prior to rinsing. All rinsing processes will be supervised.

With the additional awareness and understanding of how we will be treating "in house" chemistry being processed, problem situations like the November 20th accident can be avoided.

Should you have any questions, please contact me.

Sincerely,



Larry D. Mock

TO: E.S.  
FROM: Paul M. Obst  
SUBJECT: Trans/Circuits

DATE: April 11, 1985

In 1958 Melpar Division of E-Systems, Inc. was issued special permits to conduct scientific research and development in a commercially zoned area along Carolyn Springs Road. While in operation Melpar's discharge flowed through an underground neutralization tank containing limestone. Trans/Circuits, succeeding Melpar and operating under their special permit, was issued a Nonresidential Use Permit in July 1967. Trans/Circuits, however, conducts manufacturing - not research and development. Also, Trans/Circ subsequently by-passed the underground tank.

The attached were summaries to May 1983. Note, the current Zoning Ordinance, which became effective on August 14, 1978 prohibits any nonconforming use (excepting certain residential and commercial uses) from enlarging, extending, or structurally altering any building in which such use is conducted (§ 112-15-103 A's 1 and 2) - Trans/Circuits commenced renovation and

The WWTd on numerous occasions advised TIC of the need to neutralize acidic wastewater prior to discharge. The result of TIC's failure to neutralize such wastes was damage to the County sewer extending 2,071 feet. Prior to scheduling sewer line repairs TIC was informed their discharge would have to comply with pH limitations at all times when line was repaired and repairs were not scheduled until after TIC attested to the fact that discharge would be neutralized.

Note: damage extends beyond 1,000 feet; repairs were only to the meter vault

The pretreatment system is designed to eliminate toxic pollutants and provide pH neutralization. Monitorings during start-up reveal system operation according to design and County approval result in a discharge pH around 9.0, as indicated by Harland Products Company process description.

Examination of monitoring results and conversation with TIC employee (as well as obstruction of manhole) show that TIC is not ~~operating~~ operating their system as designed. Rather they are modifying waste disposal practices when aware of County monitoring. Immediate  
 - of employee when County van entered parking  
 receptionist informing of our arrival.  
 monitoring does not provide results  
 discharge.

cause for the following:  
 -not go through  
 4 111 4



did not follow instructions - submission which was received  
60 days late was not accepted.

ORIGINAL  
(Red)

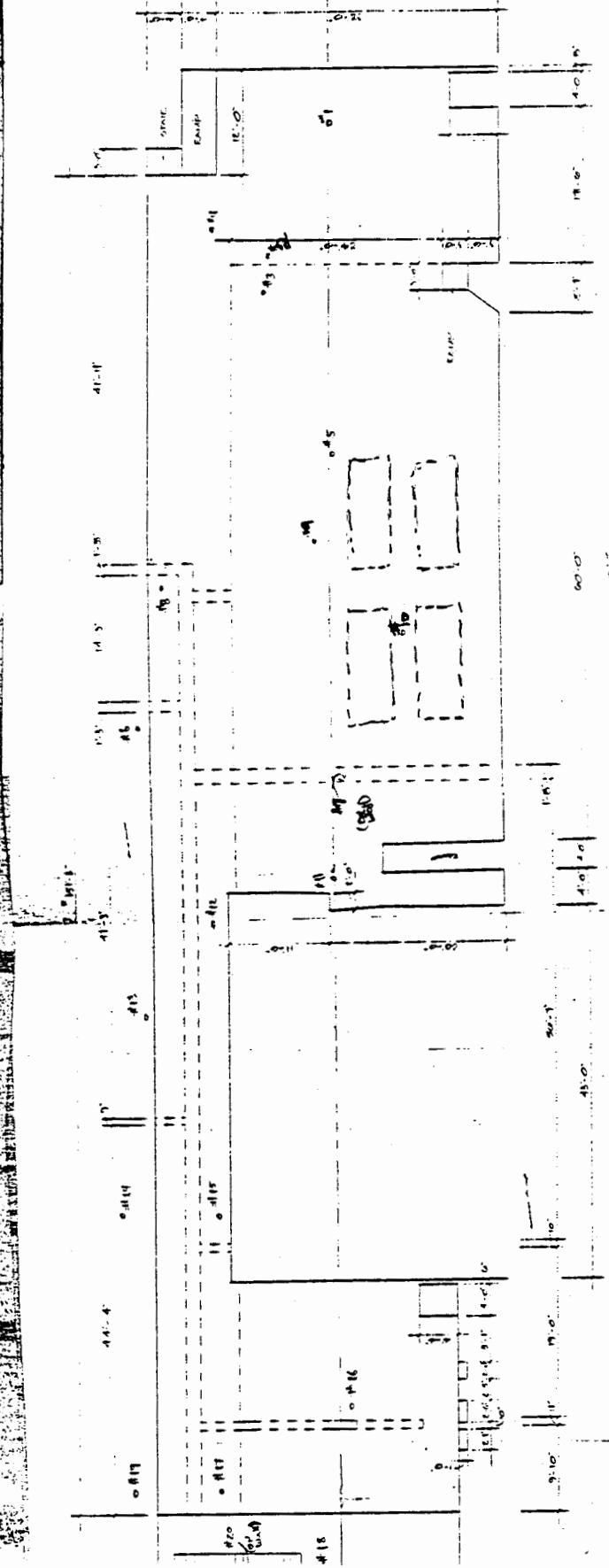
November 1, 1984 Letter to Train/Circuit approved heavy system,  
agreed compliance monitoring, data verification, and documentation  
of quality assurance program. Train/Circuit response was  
simply to copy a standard procedure and submit. Train/Circuit  
does not have a sufficient quality assurance program to establish  
data reliability.

December 21, 1984 Train/Circuit provided and of February 1985  
as the date by which the heavy system would be in effective  
operation. Train/Circuit was informed that the country  
would enforce compliance with performance standards 30 days  
following the date provided (i.e. March 29, 1985) and directed  
to inform the country of Train/Circuit represented a delay in  
activation of the system.

February 21, 1985 drawing meeting with Train/Circuit the  
subsequent date and necessity to report installation delay was

CHURCH  
BUILDINGS #

ORIGINAL  
(Red)

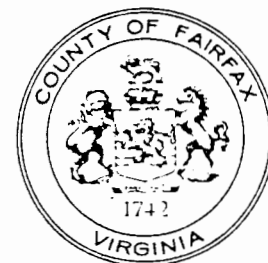






COMMONWEALTH OF VIRGINIA  
COUNTY OF FAIRFAX

4100 CHAIN BRIDGE ROAD  
FAIRFAX, VIRGINIA 22030



FEB 01 1981

CERTIFIED MAIL

Mr. Joseph E. LaLiberte  
General Manager  
Trans/Circuits, Inc.  
3509 Carlyn Spring Road  
Falls Church, Virginia 22151

ORIGINAL  
(Red)

Dear Mr. LaLiberte:

In August, 1981, rehabilitation of 2,071 feet of damaged Fairfax County sanitary sewer along Carlyn Spring Road and easement was completed. As you are aware, the cause of the damage to this part of the sewer system was a direct result of acid wastewater discharges from Trans/Circuits, and the failure of Trans/Circuits to comply with Fairfax County directives, spanning the last seven(7) years, requiring neutralization of the wastewater prior to discharge in accordance with the Fairfax County Code.

The cost to rehabilitate this portion of the sewer system was \$105,464.68 and is detailed in the attached memorandum. This is to advise you that you will be receiving an invoice and request for payment from the Fairfax County Office of Finance for the total amount of \$105,464.68 for this rehabilitation work pursuant to Section 67-1-8 of the Fairfax County Code which states:

Section 67-1-8. Damage to facilities to be reported to Sanitary Engineer; liability for payment.

In the event of damage to any part of the facilities of the County, it shall be the responsibility of the person causing such damage to immediately notify the Sanitary Engineer. The necessary repairs or replacement shall be made by the County or under supervision of the County at the expense of the person causing such damage.

In addition, recent sampling indicates that Trans/Circuits continues to discharge acid wastewater into the facilities of the County as indicated by test results given below:

	24-Hour Composite	pH Range	No. Hourly Samples Below pH 5.5
Jan. 19-20, 1982	4.3	2.5-9.1	6
Dec. 16-17, 1981	2.3	2.0-6.8	14
Nov. 18-19, 1981	3.8	2.8-7.1	8

Section 67-2-1(c)7. Prohibited discharges into the facilities of the County.

Any water or wastes having a pH lower than 5.5 or higher than 10.0.

This is disturbing since Trans/Circuits has gone to great expense to procure and install a pretreatment system that, according to the March 16, 1981, letter from Mr. Richard Walters, "... by July (1981) Trans/Circuits will have a complete 100 gpm system in operation. At this point in time, the effluent from the facility should be treated to conform to the limits outlined by the County of Fairfax." The pretreatment system appeared to be operating satisfactorily because sampling results for May, June, July, August, September, and October, 1981, indicated pH levels well within the Fairfax County limits of pH 5.5 - 10.0. ORIGINAL  
(Red)

Please be advised that it is your responsibility to operate and maintain your wastewater pretreatment system to comply with Fairfax County regulations. This requires maintaining daily operating logs, maintenance inspections, a contingency plan for equipment breakdowns and malfunctions, and providing trained operating personnel.

Taking into consideration the following:

- (1) Trans/Circuits' past record (7 years) in failure to comply with Fairfax County regulations concerning prohibited discharges;
- (2) Damage to the Fairfax County sewer system as a direct result of illegal acid wastewater discharges by Trans/Circuits; and
- (3) Installation of a pretreatment system, by Trans/Circuits, with 6 months of demonstrated ability to comply with Fairfax County regulations,

this is to advise you that, commencing immediately, the wastewater discharged by Trans/Circuits to the facilities of the County be maintained within a pH range of 5.5 - 10.0 at all times. Failure to comply with the above will result in legal action which may include imposition of Section 67-1-12. Penalties. "Any person who violates any provision of this chapter shall upon conviction be punishable by imprisonment not to exceed thirty(30) days or by a fine not to exceed one thousand dollars (\$1,000.00) or both. Each day of violation of this chapter shall continue shall constitute a separate offense"; and/or cessation of water supply.

Trans/Circuits wastewater discharge will continue to be sampled on a monthly basis and you will receive, as usual, the test results from the sampling.

If you have any questions, please contact Mr. Richard Gozikowski, Director, Wastewater Treatment Division (691-3381).

Sincerely,

DEPARTMENT OF PUBLIC WORKS

Glen G. Ehrich  
Director

Mr. Joseph E. LaLiberte

Page three

GGE:lw

Attachment

cc: J. Hamilton Lambert, County Executive  
David Stitt, County Attorney  
J. H. Liedl  
R. J. Gozikowski  
A. T. Roby ✓

ORIGINAL  
(24)

March 26, 1985 received letter from Trans/Circuits in response to Notice. Letter reports compliance with only momentary excursion—our monitoring contradicts their report. Also, Trans/Circuits informed that the leach system will not be operational until May 1985. Installation delay is not justified, report of ~~delays~~ <sup>delays</sup> was after system installation date.

~~meets~~  
OK  
April 1-2, 1985 monitoring (hourly sample collection) and April 3-10, 1985 continuous monitoring indicate Trans/Circuits altered the operation of their system resulting in a pH consistently around 9.0.

In summary, during Trans/Circuits leach, the business has acted irresponsibly in their use of the leaching system. Only when legal enforcement is imminent has the business acted to comply with pretreatment requirements. Even following legal action Trans/Circuits has failed to make good faith efforts to comply, frequently failing to meet deadlines and submitting inadequate or frivolous reports. It is considered that delays will continue and compliance will necessitate continuing (extensive) staff <sup>time</sup> review and contact. Trans/Circuits employees have complained that Trans/Circuits willfully discharges untreated wastes, bypasses pretreatment system, and shuts off the pH monitor during discharge of wastes with pH extremes.

- 1 SEPT. 2, 1975: FIRST LETTER TO LALIBERTE FROM RJG - ADVISED OF  
ILLEGAL DISCHARGE AND REQUIRED CORRECTIVE PLAN
- 2 AUG 21, 1978: LETTER TO LALIBERTE FROM RJG ADVISING THAT DUE TO  
FAILURE TO ELIMINATE ILLEGAL WASTES COPY OF FILE SENT  
TO Co. ATTY
- 3 AUG 25, 1978: MEMO TO F. LEE RUCK (Co. ATTY) FROM RJG. --  
OUTLINED PROBLEMS CAUSED BY T/C DISCHARGE --  
RESULTED IN TEAM INSPECTION.
- DEC. 8, 1978: INITIATED SENDING T/C MONTHLY MONITORING RESULTS  
ORIGINAL  
(100)
- 4 FEB. 5, 1979: TEAM INSPECTION REPORT TO LALIBERTE FROM GERALD  
F. BERSON (Chief, Permits and Plan Review Div) -  
"EXTREMELY HAZARDOUS WORKING ATMOSPHERE",  
SUBMIT PLAN OR LEGAL ACTION
- FEB 15, 1979: PROCESS DESCRIPTION FROM HAVILAND PRODUCTS COMPANY -  
CAUSTIC SODA ADDED TO RAISE pH TO ABOUT 9.0.
- MAR. 17 & APR. 1, 1980: ANALYZED PRETREATMENT SYSTEM EFFLUENT  
MAR 17 pH 8.7, Cu 7.23 mg/L  
APR 1 pH 8.1, Cu 2.22 mg/L
- 7 MAR 4-5, 1981: LABORATORY MONITORING RESULTS ILLUSTRATING OPERATION  
OF PRETREATMENT SYSTEM - pH 8.4 - 9.0 FOR 25 HRS
- 8 MAR 16, 1981: LETTER FROM RICHARD WALTERS TO PMO THAT BY  
JULY 1981 WOULD HAVE ~~ADDITIONAL~~ SYSTEM AND THEREBY  
CONTINUOUSLY COMPLY WITH CODE. PRESENT SYSTEM  
CAPABLE OF MAINTAINING pH WITH ONLY BRIEF EXCURSION.  
STATEMENT REQUIRED BEFORE LINE REPAIRED.
- 9 MAY 14, 1981: MEETING w/ R. WALTERS & TONY FULLERTON OF T/C.  
PMO, J. GREGG (LMD), & (3) INSITUFORM EAST REPS.  
INFORMED WOULD INTERRUPT BUSINESS ACTIVITY ON  
MAY 20, 1981 FOR APPROX 12 HRS DURING REPAIRS.  
EMPHASIZE NEED TO MAINTAIN pH WITHIN 5.5 TO 10.0.
- 10 MAY - OCT, 1981: 6 MONTHS OF DEMONSTRATED COMPLIANCE

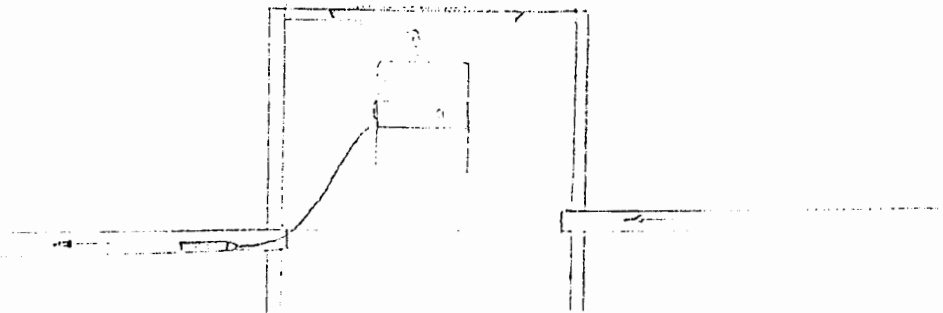
- 11 FEB. 1, 1982 : LETTER TO LALIBERIE FROM GLEN EHRLICH -  
INFORMED OF LIABILITY FOR DAMAGE, ADVISED  
FAILURE TO MAINTAIN pH WITHIN 5.5 TO 10.0  
WOULD RESULT IN LEGAL ACTION
- 12 JUNE 7, 1982 : FIRST SIGNIFICANT VIOLATION AFTER LETTER OF  
FEB. 1, 1982. ORIGINAL
- 13 DEC. ~~15~~<sup>22</sup>, 1982 : CITED FOR CODE VIOLATION BASED ON MONITORING  
THIS DATE.
- 14 JAN. 3-7, 1983 : CITED FOR CODE VIOLATION BASED ON MONITORING  
OF JAN 3, 1983. RESULTS SHOW IMPROVEMENT  
DURING INTENSIVE MONITORING FOR DISCHARGE  
PROFILE. SYSTEM STARTED UP ON JAN 6 WITH  
22 OF 24 HOURS BETWEEN 9.0 TO 9.4.  
EMPLOYEE'S INQUISITION OF MONITORING SCHEDULE  
ETC. SHOW ARE NOT OPERATING SYSTEM RATHER  
ATTEMPT TO TREAT WASTE WHEN KNOW ARE BEING  
MONITORED
- 15 PHOTOGRAPHS OF VAULT SHOWING LADDER

damage to the sewer line past the repair. TIC  
was well advised of need to maintain pH  
within stated limits, of their failure to do so,  
and that the County would take <sup>ORIGINAL</sup> ~~(Red)~~ action  
with such failure. TIC's failure to operate  
the system is considered the direct result of  
an attempt to minimize costs, as it is felt that  
TIC allowed an "extremely hazardous atmosphere"  
to exist with disregard to employees safety.

## MANHOLE DETAIL

4 out  
Part C

The sampling manhole was designed and constructed by Team/Circin to provide for representative sampling; all discharged process wastewater is required to flow through this manhole, <sup>NA</sup> located on the edge of T/C's parking lot directly in front of T/C's building (3509 Carlyn Spring Road). Manhole <sup>dimensions are</sup> ~~width is~~ approximated as wi. 3 ft. x 3 ft., depth 4 ft. Process wastewater contributed to the building drainage system enters the building sewer, spills into the manhole from the inlet pipe (located approximately 2 ft. from manhole base), pools, and overflows into the outlet pipe (located opposite inlet pipe, estimated diameter 3 in.). The effluent from the manhole flows directly into the Fairfax County sanitary sewer.





V I R G I N I A :

IN THE CIRCUIT COURT OF FAIRFAX COUNTY

BOARD OF SUPERVISORS OF  
FAIRFAX COUNTY, VIRGINIA,

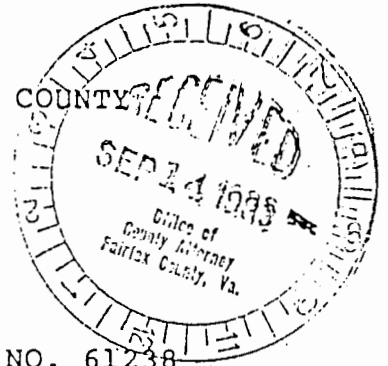
Plaintiff,

v.

TRANS/CIRCUITS, INC.,

Defendant.

AT LAW NO. 61238



ORIGINAL  
(Red)

CONFESSION OF JUDGMENT

In the Clerk's Office of the Circuit Court of the County of Fairfax, Trans/Circuits, Inc., by its President, Joseph LaLiberte, hereby acknowledged itself to be justly indebted to, and do hereby confess judgment in favor of the Board of Supervisors of Fairfax County in the sum of \$68,000.00, with judgment interest from the 15th day of August, 1983, until paid. However, if Trans/Circuits, Inc. pays the \$68,000.00 in eighteen (18) equal monthly installments of \$3,777.78 beginning on the 15th of August, 1983 and continues to make such payments on or by the 15th of each month thereafter until paid, no such judgment interest shall be charged.

Defendant, Trans/Circuits, Inc., also agrees to refrain from violating § 67-2-1 of the Fairfax County Ordinance.

Given under my hand this 26 day of August, 1983.

TRANS/CIRCUITS, INC.

NOTE, CONFESSION OF JUDGEMENT

SEEN AND AGREED BY EDWIN  
A. WILLIAMS.

BY

Joseph LaLiberte  
President and  
Attorney-in-Fact

WE ASK FOR THIS:

DAVID T. STTTT  
COUNTY ATTORNEY

By Marcus D. Williams

Marcus D. Williams  
Assistant County Attorney  
4100 Chain Bridge Road  
Fairfax, Virginia 22030  
Counsel for Plaintiff, Board of  
Supervisors of Fairfax County

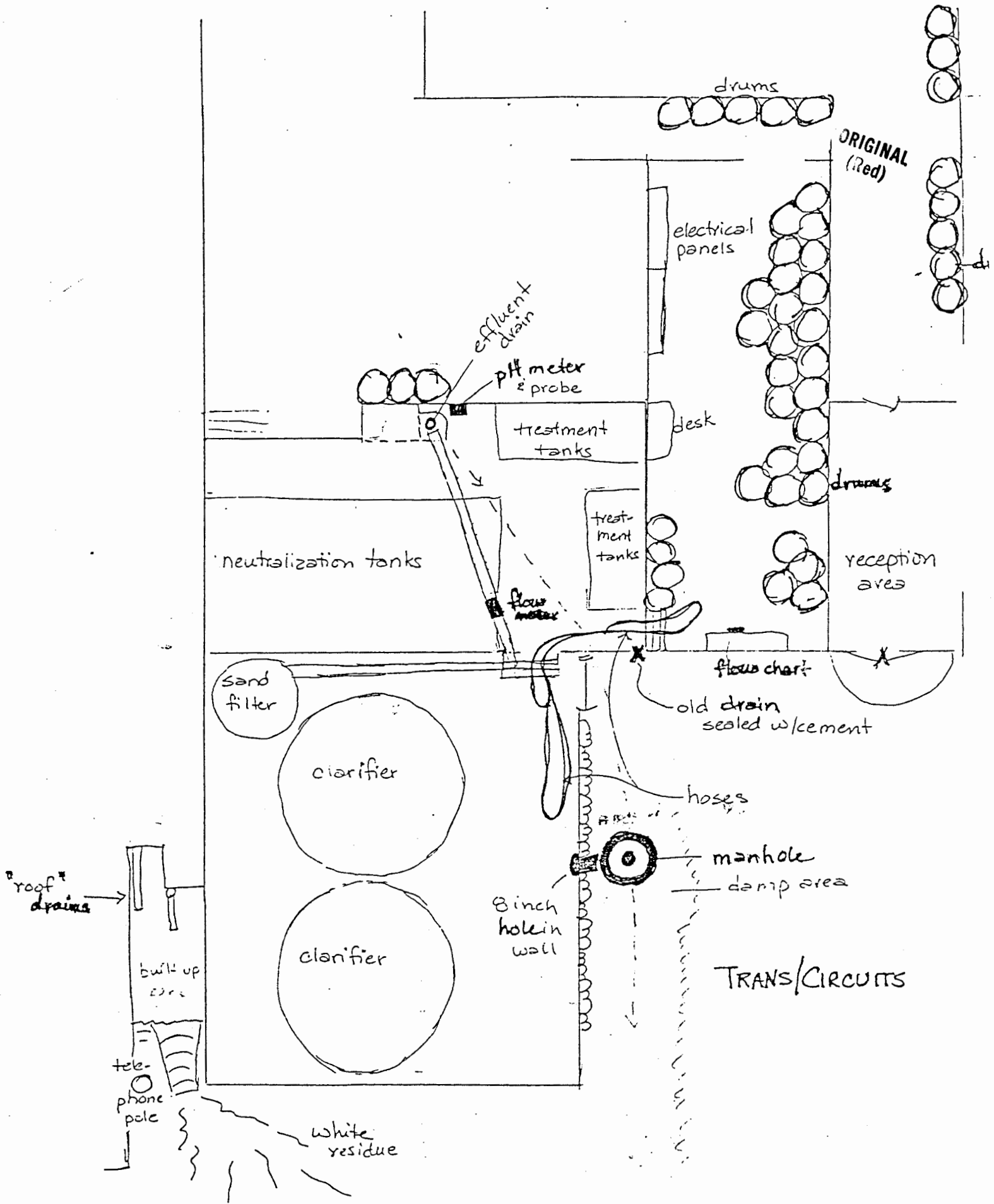
ORIGINAL  
(Rec)

SEEN AND AGREED:

KELLOGG, WILLIAMS & LYONS

By Edwin A. Williams

Edwin A. Williams, Esq.  
246 Maple Avenue, East  
Vienna, Virginia 22180  
Counsel for Defendant



Appendix C  
Sample Analysis



# EASTERN CHEMICAL WASTE SYSTEMS

*management of environmental preservation™*

Remedial Action, Handling, Underground Tank Clean-up & Removal, Hauling, Incineration, Disposal,  
Drum Crushing, Recycling, Emergency Spill Response, Laboratory Analytical Services, Detoxification  
USEPA IDENTIFICATION NO. DCD981035504

Facility address/shipping only:  
2619 Evarts Street, N.E.  
Washington, D.C. 20018

**ORIGINAL**  
**(Red)**  
Mailing address:  
P.O. Box 13085  
Washington, D.C. 20009

March 21, 1986

Mr. Roger Stix  
Transitron Electronics Corp.  
c/o Trans Circuits, Inc.  
3509 Carlyn Springs Rd.  
Falls Church, VA 22041

Dear Roger:

Enclosed please find the original copies of the E.P. Toxicity tests done by Gascoyne Laboratories. If you have any questions about this, please call me.

Sincerely,

Norb A. Dickmann, chemist  
Chemical Consultant to Sales



Main Office in DC: (202) 636-9555  
Baltimore, MD: (301) 625-2500

Eastern Chemical Waste Systems  
is a division of  
The Soresi Chemical Group, Inc.

Elizabeth, NJ: (201) 352-6550  
New York, NY: (212) 242-3349

# GASCOYNE LABORATORIES, INC.

BALTIMORE, MARYLAND 21202

BALTIMORE  
(301) 539-0195

SALISBURY  
(301) 543-1051

## CERTIFICATE OF ANALYSIS



Report No. 86-0675-1

Report to: Eastern Chemical Waste Systems

Report Date 3-6-86 **ORIGINAL  
(Red)**

Sample I.D. Concrete samples marked as below:

<u>EP TOXICITY</u>	<u>TCEP-01</u>	<u>TCEP-02</u>	<u>TCEP-03</u>	<u>TCEP-04</u>	<u>TCEP-05</u>	<u>TCEP-06</u>
Arsenic (As)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Barium (Ba)	< 1	< 1	< 1	1	3	1
Cadmium (Cd)	0.10	0.05	0.03	0.01	0.03	0.01
Chromium, Total (Cr)	0.1	0.4	0.1	0.4	0.2	0.2
Lead (Pb)	0.1	< 0.1	< 0.1	< 0.1	1.2	0.4
Mercury (Hg)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Selenium (Se)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Silver (Ag)	< 0.01	0.04	< 0.01	< 0.01	< 0.01	< 0.01

NOTE: The above results are expressed in mg/liter of extract.

GASCOYNE LABORATORIES, INC.



# EASTERN CHEMICAL WASTE SYSTEMS

*management of environmental preservation™*

Remedial Action, Handling, Underground Tank Clean-up & Removal, Hauling, Incineration, Disposal,  
Drum Crushing, Recycling, Emergency Spill Response, Laboratory Analytical Services, Detoxification  
USEPA IDENTIFICATION NO. DCD981035504

**ORIGINAL**  
**(Red)**

Facility address/shipping only:  
2619 Evarts Street, N.E.  
Washington, D.C. 20018

June 9, 1986

Mailing address:  
P.O. Box 13085  
Washington, D.C. 20009

Mr. Roger Stix  
Transitron Electronics Corporation  
100 Unicorn Park Drive  
Woburn, MA 01801



Dear Roger:

As you know, the results of the preliminary sampling of the concrete pad did not prove it to be E.P. Toxic. The results of those 21 samples taken in 2" deep cores do not preclude other areas on the pad being E.P. Toxic, however.

Specifically, the points of concern are:

1. **The top 1/4-1/2 inch of concrete.** The results of the preliminary sampling were from 2" long cores of cement, per your request. The contamination level shown is an average of that 2 inches (PPM readings). It is logical to assume that there would be heavier contamination on the very top layer and lighter contamination on the bottom. The immediate top layer could very well be E.P. toxic.
2. **The juncture points in the drainage trenches.** Should the floors of the drainage trenches be contaminated it would be reasonable to assume that the highest concentrations of metals would be found at the intersections where pipes would have been fitted together. Most leakage would have occurred at these points.
3. **The pit floors.** Heavy metals accumulate at the lowest point in the system. The highest level of contamination found in the preliminary sampling was in the sample from the wall of the largest pit. Samples should be taken from the floors of each pit.
4. **The drainage ditch near the former lab area.** This drainage ditch was dug to draw accumulations of water on the lab area floor. Visually it appears that there has been drainage or seepage out of the side of the pad at that site. Any seepage from this source would most probably be contaminated since the liquids would come from leakage from pipes rather than from groundwater. An accumulation of metals may have occurred in this

Toll Free: 1-800-826-0518

Main Office in DC: (202) 636-9555

New York Office: (212) 242-3349

Pittsburgh Office: (412) 941-1229

Elizabeth, NJ: (201) 352-6550

Baltimore, MD: (301) 625-2500

Eastern Chemical Waste Systems is a division of TSCGI



Mr. Roger Stix  
June 9, 1986  
Page Two

ditch. At least one sample should be taken 2-3 feet down in the gravel. <sup>ORIGINAL</sup>  
(Red)

5. **Areas of obvious concrete decomposition.** There are several areas where the concrete has decomposed and crumbled. An example on this is the area along the wall on the access ramp. It appears that drainage of liquids, and probably acids, has occurred on this spot over time. Therefore it is very suspect. Samples should be taken at the worst of these spots.

6. **The sand in several of the chambers below the pad.** There is visual evidence that liquids have seeped or drained from the walls of the pad in the section abutting the former lab area. We were also told that many gallons of liquid were pumped from the sand under the pad when a hole was dug in the pad several years ago.

Very possibly this liquid came from leaking pipes or from leakage through the walls of the pits. Wells should be dug into this sand in several places and the sand should be sampled and tested.

I have attached a blueprint of the pad area on which I've indicated the locations where we suggest samples to be taken. We suggest samples taken 1/4 inch deep at the intersections of a 10 foot grid to determine surface contamination. Other locations are indicated as needed. The numbering system for the suggested locations refer to the list above, i.e., a '3' on the blue print would indicate a sample to be taken from the pit floors.

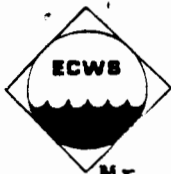
ECWS does not regard this proposal as unsolicited advice. Under the contract between Transiron and ECWS, ECWS is guaranteed disposal of 100 drums of concrete. Environmentally it makes good sense to determine the hottest spots so that we can dispose of concrete taken from those spots instead of at random or by some guesswork system.

The total number of samples we suggest is 64. We estimate that 30 hours of chemist/supervisor labor and 30 hours of concrete technician labor will be needed to take these samples. Also, certain rental equipment will be needed, such as a jackhammer to dig the wells in to the sand layer.

The cost of this sampling would be as follows:

64 samples analyzed for EP toxicity	
at \$150.00/sample.....	\$9600.00
30 hours of chemist/supervisor labor	
at \$27.00/hour.....	\$810.00





Mr. Roger Stix  
June 9, 1986  
Page Three

ORIGINAL  
(Red)

30 hours of concrete technician  
labor at \$27.00/hour.....\$810.00

Estimated cost of Rental Equipment  
(jackhammer and core drill).....\$600.00

Total Cost.....\$11,820.00

If you agree to this proposal, please deposit the above amount into the escrow account and call me to schedule the work. If you want to do only some part of the above, please call me to discuss it.

Sincerely,

Norb Dickmann, chemist  
Contract Specialist

DRAFT.ND:rts

cc: Mark V. Soresi, President, ECWS-HQ  
Craig A. Childres, Vice-President, ECWS-HQ



COMMONWEALTH OF VIRGINIA  
COUNTY OF FAIRFAX

4100 CHAIN BRIDGE ROAD  
FAIRFAX, VIRGINIA 22030



April 23, 1984

CERTIFIED MAIL

Mr. D. James Aaron  
Trans/Circuits, Inc.  
3509 Carlyn Spring Road  
Falls Church, Virginia 22041

ORIGINAL  
(Red)

NOTICE OF VIOLATION

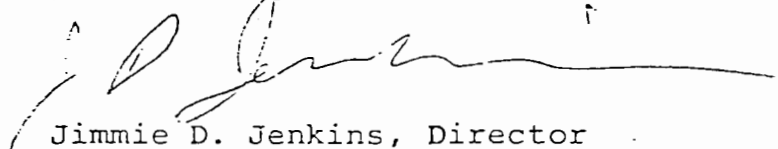
This notice is to inform you that Trans/Circuits is in violation of the Fairfax County Code, Chapter 67 (Sanitary Sewers and Sewage Disposal), §67-2-1(4) (General Discharge Prohibitions: Corrosive Wastes). Monitoring of Trans/Circuits' discharge on April 16-18, 1984 reveals corrosive waste discharge to the sanitary sewer. The indicated discharge has frequently exceeded both the minimum and the maximum allowable pH limitations of 5.5 and 10.0 respectively. A summary of Fairfax County monitoring results have been enclosed.

Immediate compliance with the County Code is required. Severe penalties for non-compliance are provided for in Chapter 67 of the Code and shall be imposed. Each day of violation of General Discharge Prohibitions shall constitute a separate offense.

You are requested to provide us a written explanation as to the reasons for these violations and your plan of action to correct them. Please submit this information to our office no later than five(5) working days upon receipt of this letter.

Sincerely,

DEPARTMENT OF PUBLIC WORKS

  
Jimmie D. Jenkins, Director  
Wastewater Treatment Division

JDJ:lw

Attachment

cc: Denton U. Kent, Deputy County Executive  
Development

cc: R. J. Gozikowski, Director, Office

cc: Elaine Schaeffer, Director, Environmental

*Note, cannot believe that  
system coincidentally malfunctioned  
1-3PM 4/16/84 - our monitoring  
indicates compliance 2:40-9:40 PM.  
12.21 at 12AM<sup>(N)</sup> corresponds to  
between samples #11 & 12 4/16  
which confirms our results!  
Problems may indicate TIC  
was not operating system prior  
to our monitoring.*

DISCHARGE MONITORING SUMMARY

Source: Trans/Circuits, Inc.  
Date: April 16-18, 1984

<u>Parameter</u>	<u>Minimum</u>	<u>Maximum</u>
pH, units	2.8	12.4

## INDUSTRIAL WASTE SECTION ANALYSES

SOURCE T/C  
 SECTION DATE 04-16-84

SAMPLE	TIME	pH	CYANIDE		AMMONIA		COD		COMMENTS
		units	units	mg/l	units	mg/l	units	mg/l	
4 HR COMP		11.3 <sup>✓</sup>							
HR COMP									
1	2:38	9.2							check start up
2	2:40	9.3							
3		9.4							
4		9.0							
5		9.0							
6		8.7							
7		8.2							
8		7.9							
9		8.2							
10		11.4 <sup>✓</sup>							
11		12.0 <sup>✓</sup>							
12		12.1 <sup>✓</sup>							
13		11.9 <sup>✓</sup>							
14		10.8 <sup>✓</sup>							
15		10.7 <sup>✓</sup>							
16		10.3 <sup>✓</sup>							
17		9.8 <sup>✓</sup>							
18		9.4							
19		9.0							
20		12.2 <sup>✓</sup>							
21		11.3 <sup>✓</sup>							
22		12.4 <sup>✓</sup>							
23		12.4 <sup>✓</sup>							
24		12.0 <sup>✓</sup>							
25		7.1 <sup>✓</sup>							
26									
27									
28									

TEST COUNT 26

	DATE ANALYZED	SIGNED
pH	041784	PJO'Connor
CN		
NH <sub>3</sub>		
COD		

## INDUSTRIAL WASTE SECTION ANALYSES

SOURCE

T/C

COLLECTION DATE

04/17/84

SAMPLE	TIME	pH	CYANIDE		AMMONIA		COD		COMMENTS
		units	units	mg/l	units	mg/l	units	mg/l	
24 HR COMP		9.5							ORIGINAL (Red)
HR COMP									
1	1:52pm	9.8							
2		2.9							
3		(2.8)							
4		3.9							
5		5.1							
6		9.1							
7		9.4							
8		9.8							
9		7.2							
10		9.1							
11		8.5							
12		8.5							
		7.7							
14		7.6							
15		7.6							
16		7.5							
17		7.4							
3		7.4							
19		9.1							
20		8.8							
21		(12.4)							
22		-							
23		-							
24		-							
25		-							
26		-							
27		-							
28		-							

TEST COUNT

22

DATE ANALYZED

SIGNED

pH

CN

NH<sub>3</sub>

COD

04/18/84

PJO'Connor

## INDUSTRIAL WASTE SECTION ANALYSES

SOURCE

T/C

CO ACTION DATE 041884

SAMPLE	TIME	pH	CYANIDE		AMMONIA		COD		COMMENTS
		units	units	mg/l	units	mg/l	units	mg/l	
HR COMP		10.2							(Red)
HR COMP									
1	10:05	12.3							
2		12.2							
3		11.2							
4		10.0							
5		9.0							
6		8.6							
		7.8							
8		7.6							
9		7.5							
10		7.6							
11		7.6							
12		7.6							
13		7.7							
14		7.6							
15		7.5							
16		7.4							
17		7.6							
		8.0							
19		8.0							
20		7.9							
21		7.8							
22		9.6							
23		9.1							
24		7.9							
25		7.2							
26		9.0							
27									
28									

TEST COUNT 27

	DATE ANALYZED	SIGNED
pH	041984	PJO'anno
CN		
NH <sub>3</sub>		
COD		

## INDUSTRIAL WASTE SECTION ANALYSES

SOURCE TRANS/CIRCUITSSECTION DATE 4/23-24/84

SAMPLE	TIME	pH	CYANIDE		AMMONIA		COD		COMMENTS
		units	units	mg/l	units	mg/l	units	mg/l	
<u>4</u> HR COMP		6.3							
HR COMP									
1	12:15 PM	8.1							
2		7.0							
3		3.4 ✓							
4		3.5 ✓							
5		4.0 ✓							
6		7.1							
		8.3							
8		9.0							
9		(3.1) ✓							
10		6.2							
11		8.2							
		7.8							
13		7.6							
14		7.5							
15		—							
16		—							
17		—							
18		—							
19		—							
20		—							
21		8.2							
22		7.8							
23		8.7							
24		(9.4)							
25									
26									
27									
28									

TEST COUNT 19

	DATE ANALYZED	SIGNED
pH	4/24/84	<i>[Signature]</i>
CN		
NH <sub>3</sub>		
COD		

# FAIRFAX COUNTY, VIRGINIA

## MEMORANDUM

TO: J. D. Jenkins, Director  
Wastewater Treatment Division

FROM: Elaine Schaeffer, Director  
Laboratory Services

FILE NO:

SUBJECT: Discharge Violations at Trans/Circuits, Inc.

REFERENCE:

DATE: May 7, 1984

ORIGINAL  
(Reg)

A NOTICE OF VIOLATION was sent to Trans/Circuits as a result of corrosive discharge to the sanitary sewer on April 16-18, 1984. A written response from T/C was received explaining that management had reviewed the "reasons for pH violations" and had taken action to correct these violations. Upon review of T/C's written explanation as to the reasons for these violations and plan of action to correct them, it is apparent that adequate waste management practices are not in use at T/C. Evidence of inadequate waste management practices are cited below.

- 1.) A corrosive waste was discharged to the sanitary sewer on 4/16, 4/17, 4/18 and 4/23.
- 2.) T/C written response for period of violation and corrective action taken was identified as having occurred prior to the violations monitored by IWS staff.
- 3.) T/C corrective action taken was insufficient as is evidenced by subsequent discharge violations.
- 4.) T/C identified violation of pH 2.2 from 1:00 PM to 3:00 PM on 4/16 does not correspond with the initial IWS monitoring result of pH 9.2 at 2:38 PM on 4/16.

It is therefore evident that T/C has not adequately reviewed and managed their waste discharge in accordance with Chapter 67 of the County Code. Corrective action which has been addressed by T/C is prior to cited violations indicating inadequate knowledge of discharge characteristics and subsequent lack of effective corrective action measures. Furthermore, the T/C statement referencing a low pH between 1-3 PM



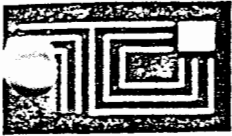
J. D. Jenkins

May 7, 1984

Page 2

on 4/16 is in conflict with a pH of 9.2 obtained by IWS staff. This discrepancy may indicate a T/C monitoring inaccuracy or a misinterpretation of the monitoring data. In either case, this is a major problem which cannot be overlooked.

In view of events indicated above, it is recommended that authorization be granted to acquire appropriate summonses for four (4) days of Code violation.



**TRANS/CIRCUITS, Inc.**

3509 CARLYN SPRING ROAD • FALLS CHURCH, VIRGINIA 22041 • PHONE: (703) 820-6405

April 27, 1984

ORIGINAL  
(Red)

Mr. Jimmie D. Jenkins  
County of Fairfax  
4100 Chain Bridge Road  
Fairfax, Virginia 22030

Dear Mr. Jenkins:

In reply to your letter to our Mr. D. James Aaron on April 23, 1984, I am pleased to inform you that I have reviewed the reasons for PH violations with Talaat El-Hotiby, our Engineering Chemist. An explanation and actions that have been taken to correct these violations is as follows:

1. PH was 12.21 at 12:00 a.m. on 4/16/84 due to sulfuric acid running out in waste treatment area.  
ACTION TAKEN: 1. Plating process stopped immediately.  
2. Reorder point has been increased from 6 to 10 drums.
2. PH was 2.2 from 1:00 p.m. to 3:00 p.m. on 4/16/84 due to caustic valve not working properly.  
ACTION TAKEN: Replaced caustic valve.

If you have any questions regarding this information, please contact me. Thank you.

Very truly yours/

Keith V. MacKinnon  
Operations Manager

KVK/jgr

## Lapteff Associates

CONSULTING ENGINEERS  
P. O. BOX 4150 • WOODBRIDGE, VA. 22194

July 22, 1985

Trans/Circuits, Inc.  
P.O. Box 8248  
3509 Carlyn Spring Road  
Falls Church, Virginia 22041

Attention: Mr. Talaat El-Hotiby - Chemical Process Engineer

Subject : Laboratory Report

Gentlemen:

Herewith are submitted analytical test results for four (4) waste water samples collected from the Trans/Circuit, Inc.. The samples were delivered to our laboratory July 17, 1985 and processed in accordance with Standard Methods and/or EPA approved analytical procedures.

Methods:	Total Cyanide	SM 412 C
	Total Lead	SM 303 A
	Total Copper	SM 303 A
	Total Chromium	EPA 218.1
	Total Nickel	SM 303 A
	Total Cadmium	SM 303 A
	Total Zinc	SM 303 A
	Total Silver	SM 303 A

Results were as follows:

<u>Sample Designation</u>	<u>Parameter</u>	<u>Analytical Results, mg/l</u>
July 8, 1985	Total Cyanide	<0.4
July 9, 1985	Total Cyanide	<0.4
July 10, 1985	Total Cyanide	<0.4
July 11, 1985	Total Cyanide	<0.4

T/c Total Metals - Calculated from  
individual hourly readings (samples)  
according to flow 7/17-7/20

	7/17	7/18	7/19	7/20
Cr	4.52	1.85	0.61	2.69
Cu	26.88	4.03	1.83	3.77
Ni	6.28	1.84	0.89	0.53
Pb	1.48	1.12	0.34	0.54

# Lapteff Associates

CONSULTING ENGINEERS  
P. O. BOX 4150 • WOODBRIDGE, VA. 22194

August 28, 1985

ORIGINAL  
(Red)

Trans/Circuits, Inc.  
P.O. Box 8248  
3509 Carlyn Spring Road  
Falls Church, Virginia 22041

Attention: Mr. Talaat El-Hotiby - Chemical Process Engineer

Subject : Laboratory Report

Gentlemen:

Herewith are submitted analytical test results for two (2) wastewater samples collected from Trans/Circuits, Inc. The samples were delivered to our laboratory August 26, 1985 and processed in accordance with Standard Methods and/or EPA approved analytical procedures.

Methods:	Total Cyanide	SM 412 C
	Total Lead	SM 303 A
	Total Copper	SM 303 A
	Total Chromium	EPA 218.1
	Total Nickel	SM 303 A
	Total Cadmium	SM 303 A
	Total Zinc	SM 303 A
	Total Silver	SM 303 A

Results were as follows:

## Analytical Results

Sample Designation

<u>Parameter</u>	<u>A</u>	<u>S-A</u>
Total Cyanide, mg/l	< 0.4	< 0.4
Total Lead, mg/l	< 0.02	< 0.02
Total Copper, mg/l	0.340	2.13

Page 2 - TRANS/CR ITS, INC.  
Attn: Mr. Alaata El-Hotiby  
Subj: Laboratory Report  
August 28, 1985

4

Analytical Results  
Sample Designation

Parameter

A

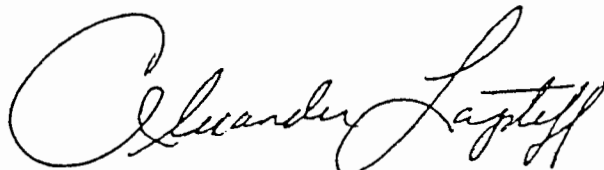
S-A

Total Chromium, mg/l	0.001	1.28
Total Nickel, mg/l	< 0.008	2.03
Total Cadmium, mg/l	< 0.001	< 0.001
Total Zinc, mg/l	0.014	0.021
Total Silver, mg/l	< 0.002	< 0.002

ORIGINAL  
(104)

Note: (<) denotes less than.

Respectfully submitted,  
LAPTEFF ASSOCIATES



Alexander Lapteff, Ph.D.  
Principal Sanitary Engineer

AP 10/1/85



## TRANS/CIRCUITS, Inc.

P.O. BOX 8248 • 3509 CARLYN SPRING ROAD • FALLS CHURCH, VIRGINIA 22041 • PHONE: (703) 820-6405  
TWX: 710-831-0637

ORIGINAL  
(100)

### Analysis of Attachment "A"

1. PH Composite; Normal Range - 7.90 - 9.49
2. PH Range: Normal except on August 15 - Range was 2.0 - 9.8  
Please see the Waste Treatment Log Book and PH Effluent Chart on the date.
3. Flow: Normal - 7,222 - 44,640 Gals.
4. Pollutant Toxic Inorganic - The quality of Final Effluent has been improved with some exception date (8-1-85) which show high copper.

## Attachment "A"

Analysis Results of Composite Samples  
of Waste Water Treatment - August 1985

ORIGINAL  
(Red)

Date	PH	PH Range	Flow by Gals	Pollutant Toxic Inorganic						
				Copper	Lead	Chromium	Nickel	Cadmium	Zinc	Total Metals
-1-85	8.76	8.4-9.3	33,220	7.05	0.57	2.37	0.97	0.02	0.04	11.0
-2-85	8.52	8.8-9.0	33,650	1.56	0.24	1.61	0.43	0.02	0.02	3.8
-3-85	8.39	8.8-8.9	19,610	1.16	0.16	0.44	0.42	0.02	0.04	2.2
-5-85	8.37	8.6-9.2	19,380	1.22	0.25	3.16	0.75	0.05	0.03	5.4
-6-85	8.79	8.4-9.1	30,240	2.49	0.53	1.28	0.33	0.03	0.23	4.8
-7-85	8.47	8.0-9.1	34,300	4.31	0.37	1.23	0.37	0.03	0.04	6.1
-8-85	9.09	6.2-10.0	32,750	1.69	0.32	0.51	0.45	0.02	0.03	3.0
-9-85	9.39	8.2-9.9	33,840	2.84	0.14	0.08	0.25	0.03	0.02	3.1
-10-85	9.49	6.6-9.8	23,130	1.31	0.08	0.18	0.16	0.02	0.02	1.7
-11-85	8.79	9.2-9.8	7,222	0.59	0.15	0.53	0.26	0.02	0.01	1.5
-12-85	9.16	8.4-9.6	44,640	0.84	0.11	3.12	0.12	0.02	0.04	4.2
-13-85	9.13	8.8-9.6	16,730	2.34	0.14	0.24	0.35	0.04	0.02	3.1
-1-85	9.08	5.6-9.9	29,260	2.19	0.19	0.48	0.48	0.02	0.02	3.3
-15-85	9.20	2.0-9.8	36,370	3.35	0.25	0.29	0.70	0.02	0.04	4.6

Note: The Analyses Results do not indicate any cyanide



Attachment "A"

Analysis Results of Composite Samples  
of Waste Water Treatment - August 1985

Date	PH	PH Range	Flow by Gals	Pollutant Toxic Inorganic						
				Copper	Lead	Chromium	Nickel	Cadmium	Zinc	Tot Met
8/16/85	9.07	9.0-9.4	31,210	2.50	0.24	0.33	0.28	0.03	0.04	3.4
8/17/85	7.90	6.4-8.2	12,390	0.88	0.42	0.18	0.17	0.04	0.05	1.7
8/20/85	8.15	7.0-8.4	30,750	0.412	0.19	0.30	0.071	0.04	0.05	1.06
8/21/85	8.39	8.0-8.6	32,270	0.639	0.193	0.166	0.145	0.045	0.033	1.22
8/22/85	8.05	7.6-8.2	24,140	3.225	0.290	0.337	0.100	0.105	0.213	4.27
8/23/85	8.15	7.9-8.2	29,390	0.542	0.12	0.11	0.23	0.01	0.05	1.06
8/24/85	8.26	7.2-8.7	17,290	0.74	0.35	0.26	0.25	0.01	0.05	1.66
8/26/85	8.82	8.9-9.0	31,090	0.55	0.035	0.06	0.145	0.002	0.042	0.83
8/27/85	8.92	8.5-9.0	29,260	0.97	0.045	0.07	0.07	0.0015	0.038	1.19
8/28/85	8.99	8.6-9.0	28,640	0.635	0.045	0.045	0.055	0.0015	0.044	0.87
8/29/85	9.02	8.6-9.0	30,390	0.475	0.025	0.17	0.07	0.001	0.040	0.76
8/30/85	8.81	8.6-9.0	29,700	0.485	0.03	0.650	0.18	0.02	0.02	1.36
8/19/85	- First Day for Lancy System									

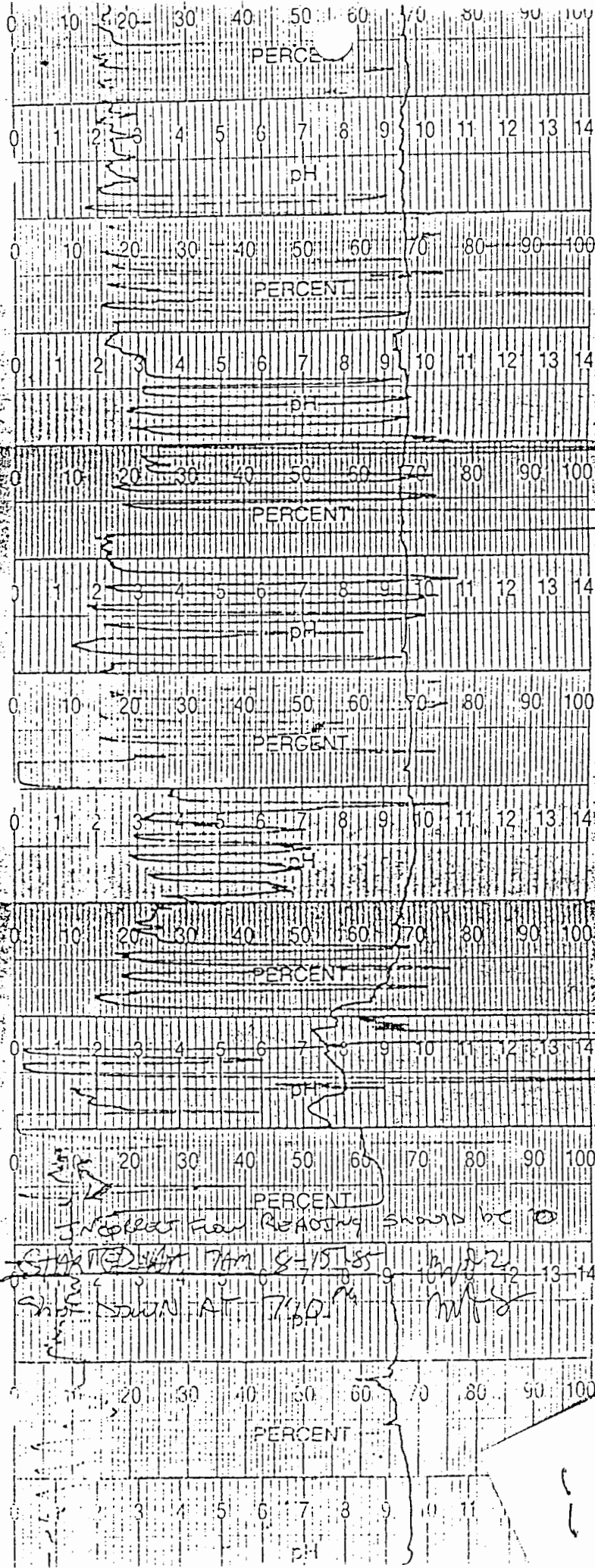
8

LANC V INTERNATIONAL INC

LANC V INTERNATIONAL INC

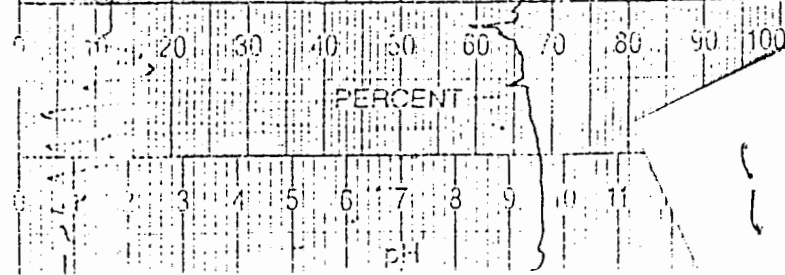
LANC V INTERNATIONAL INC

LANC V INTERNATIONAL INC



ORIGINAL  
(red)

STATION 76m 8-15-85  
7:00 PM



ORIGINAL  
(100)

## Appendix D

### Manifests

**MICHIGAN DEPARTMENT  
OF NATURAL RESOURCES**

**DO NOT WRITE IN THIS SPACE**  
ATT. ☐ DIS. ☐ REJ. ☐

1979, as amended and Act 136, P.A.  
1969.  
Failure to file is punishable under  
section 299.548 MCL or Section 10 of  
Act 136, P.A. 1969.

Form Approved OMB No. 2000-0404 Expires 7-31-86

Please print or type

**UNIFORM HAZARDOUS  
WASTE MANIFEST**

1. Generator's US EPA ID No. **26041962036111**  
Manifest Document No.

2. Page 1  
of 1

Information in the shaded areas  
is not required by Federal  
law.

3. Generator's Name and Mailing Address  
**FRANK STROTH, INC.**

**3509 CARMEL SPRINGS ROAD FALLS CHURCH, VA**

4. Generator's Phone **(703) 820-6405**

5. Transporter 1 Company Name  
**EASTERN CHEMICAL WASTE SYSTEMS**

6. US EPA ID Number  
**DCDP0825804**

7. Transporter 2 Company Name  
**EASTERN CHEMICAL WASTE SYSTEMS**

8. US EPA ID Number  
**DCDP081035504**

9. Designated Facility Name and Site Address  
**CHEN HAY SERVICES**

**10550 ALLEN ROAD**

**WYANDOTTE, MI 48192**

10. US EPA ID Number  
**MI096963194**

11. US DOT Description (including Proper Shipping Name, Hazard Class, and  
HM ID NUMBER).

12. Containers  
No. Type

13. Total  
Quantity

14. Unit  
Wt/Vol

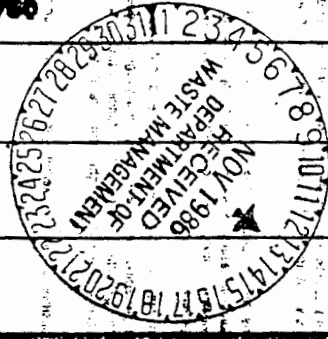
Waste  
No. HM

a. **Waste Corrosive Liquid, UN 1700**  
**Corrosive Material UN 1700**

**2** **012**  
**012**

**0660**  
**ORIGINAL**

**1**  
**1**



15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

Unless I am a small quantity generator who has been exempted by statute or regulation from the duty to make a waste minimization certification under Section 3002(b) of RCRA, I also certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and I have selected the method of treatment, storage or disposal currently available to me which minimizes the present and future threat to human health and the environment.

Printed/Typed Name

Signature

Date  
Month Day Year

**Samuel J. Dowland**

*[Signature]*

**10/21/86**

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Date  
Month Day Year

**BLAIR R CLARK**

*[Signature]*

**10/21/86**

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Date  
Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name

Signature

Date  
Month Day Year

**J. HERVEY**

*[Signature]*

**02/11/86**

ALL SP  
CENTE.  
USE BE REPORTED TO THE MICHIGAN POLLUTION EMERGEN-  
CING SYSTEM, IN MIC  
AT 1-800-392-4706  
STAY AT 817-373-7900 AND THE NATIONAL RESPONSE

# **DNR** **MICHIGAN DEPARTMENT** **OF NATURAL RESOURCES**

DO NOT WRITE IN THIS SPACE

ATT. ☐ DIS. ☐ REJ. ☐

ORIGINAL  
(Red)

Required under authority of Act 61, P.A. 1979, as amended and Act 136, P.A. 1989.

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1989.

I

Please print or type.

Form Approved OMB No. 2000-0404 Expires 7-31-86

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 2	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address <b>FRANK CIRCUITS, INC.</b> <b>3909 CARLYN SPRINGS ROAD, FALLS CHURCH, VA</b>		4. Generator's Phone (703) <b>820-6405</b>		5. State Manifest Document Number <b>MI 0846120</b>		
6. Transporter 1 Company Name <b>EASTERN CHEMICAL WASTE SYSTEMS</b>		7. Transporter 1 US EPA ID Number <b>000000000000000000</b>		8. State Generator's ID <b>000000000000000000</b>		
9. Transporter 2 Company Name <b>EASTERN CHEMICAL WASTE SYSTEMS</b>		10. Transporter 2 US EPA ID Number <b>000000000000000000</b>		9. State Transporter's ID <b>000000000000000000</b>		
11. Designated Facility Name and Site Address <b>CHEN MET SERVICES</b> <b>18550 ALLEN ROAD</b> <b>WHANDOTT, MI 49192</b>		12. US EPA ID Number <b>000000000000000000</b>		10. State Transporter's ID <b>000000000000000000</b>		
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM)		12. Containers		13. Total Quantity		
a. <b>Waste Corrosive Liquid NOS</b> <b>Corrosive Material UN 1760</b>		No. <b>000000000000000000</b> Type <b>000000000000000000</b>		14. Unit <b>000000000000000000</b>		
b. <b>Waste Corrosive Liquid NOS</b> <b>Corrosive Material UN 1760</b>		No. <b>000000000000000000</b> Type <b>000000000000000000</b>		14. Unit <b>000000000000000000</b>		
c. <b>Waste Alkaline Liquid NOS</b> <b>Corrosive Material NA 1719</b>		No. <b>000000000000000000</b> Type <b>000000000000000000</b>		14. Unit <b>000000000000000000</b>		
d. <b>Waste Liquid Substantive NOS</b> <b>NON HAZARDOUS</b>		No. <b>000000000000000000</b> Type <b>000000000000000000</b>		14. Unit <b>000000000000000000</b>		
15. Special Handling Instructions and Additional Information		16. Generator's Certification		17. Transporter 1 Acknowledgement of Receipt of Materials		
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.		17. Transporter 1 Acknowledgement of Receipt of Materials		18. Transporter 2 Acknowledgement of Receipt of Materials		
17. Transporter 1 Acknowledgement of Receipt of Materials		18. Transporter 2 Acknowledgement of Receipt of Materials		19. Discrepancy Indication Space		
18. Transporter 2 Acknowledgement of Receipt of Materials		19. Discrepancy Indication Space		20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.		
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.		21. Facility Owner or Operator: Signature		22. Date		

ALL 99 JUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM IN 1-800-252-4602 24 HOURS PER DAY.

ALL 99 JUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM IN 1-800-252-4602 24 HOURS PER DAY.



REPORT ANY UNRECOVERED DISCHARGE EQUAL TO OR IN EXCESS OF EACH HAZARDOUS WASTE ASSIGNED "RQ" VALUE TO NATIONAL RESPONSE CENTER

800-424-8802

## REPORTABLE QUANTITY VALUE

1 = 5000 LBS. 4 = 10 LBS.  
2 = 1000 LBS. 5 = 1 LB.  
3 = 100 LBS.

CHEM TREC = 800-424-9300  
EPA HOTLINE = 800-424-9346  
CDC POISON CENTER = 404-635-5313  
DOT = 202-426-1830

PLACARDS PROVIDED

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved OMB No. 2000-0404 Expires 7-31-86

## UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

V A D 0 4 1 9 6 2 0 3 6

Manifest Document No. 0 3 2 4

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address

ROGER STIX c/o

TRANS CIRCUITS INC.

3509 CARLYN SPRING ROAD, FALLS CHURCH, VA

4. Generator's Phone ( 703 ) 820-6403

5. Transporter 1 Company Name

6. US EPA ID Number

EASTERN CHEMICAL WASTE SYSTEMS

D C D 9 8 0 8 2 8 8 6 7

7. Transporter 2 Company Name

8. US EPA ID Number

EASTERN CHEMICAL WASTE SYSTEMS

D C D 9 8 1 0 3 5 5 0 4

9. Designated Facility Name and Site Address

10. US EPA ID Number

ENVIRONMENTAL ENTERPRISES, INC.

4650 SPRING GROVE AVENUE

CINCINNATI, OH 45232

I O H D 0 8 3 3 7 7 0 1 0

A. State Manifest Document Number

032 A

ORIGINAL

B. State Generator's ID

SAME

(Red)

C. State Transporter's ID

XH72MC-A5

D. Transporter's Phone 202 636-9555

E. State Transporter's ID

F. Transporter's Phone 202 636-9555

G. State Facility's ID

H. Facility's Phone

513 541-1823

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

12. Containers  
No. Type13. Total  
Quantity14. Unit  
M/Vol

1. Waste No.

a. Waste Corrosive Liquids NOS  
Corrosive Materials UN 1760

004 DM00800 P D002

b. Waste Flammable Liquids NOS  
Flammable Liquid UN 1993

006 DM01200 P D001

c. Waste oil NOS  
Combustible Liquid NA 1270

001 DM00200 P D001

d. ~~Waste Oxidizer NOS~~

J. Additional Descriptions for Materials Listed Above

a. Lab packs

c. Lab packs

b. Lab packs

d. Lab packs

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in proper condition for transport by highway according to applicable international and national governmental regulations.

Printed/Typed Name

LARRY D. MOCK

Signature

Larry S. Mock

Date

Month Day Year  
02/19/86

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Fred Hoffman

Signature

Fred Hoffman

Date

Month Day Year  
02/19/86

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Date

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name

Signature

Date

Month Day Year

REPORT ANY UNRECOVERED DISCHARGE EQUAL TO OR IN EXCESS OF EACH HAZARDOUS WASTE ASSIGNED "RC" VALUE TO NATIONAL RESPONSE CENTER <b>800-424-8802</b>	REPORTABLE QUANTITY VALUE		CHEM TREC = 800-424-9300 EPA HOTLINE = 800-424-9346 CDC POISON CENTER = 404-635-5313 DOT = 202-426-1830	PLACARDS PROVIDED
	1 = 5000 LBS.	4 = 10 LBS.		
	2 = 1000 LBS.	5 = 1 LB.		
	3 = 100 LBS.			

Please print or type (Form designed for use on elite (12-pitch) typewriter.)

Form Approved OMB No. 2000-0404 Expires 7-31-86

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. V A D 0 4 1 9 6 2 0 3 6	Manifest Document No. 0 3 2 8	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address ROGER STIX c/o TRANS CIRCUITS INC. 3509 CARLYN SPRING ROAD, FALLS CHURCH, VA			A. State Manifest Document Number 032 B ORIGINAL			
4. Generator's Phone (703 ) 820-6403			B. State Generator's ID SAME		(Red)	
5. Transporter 1 Company Name EASTERN CHEMICAL WASTE SYSTEMS			6. US EPA ID Number D C D 9 8 0 8 2 8 8 6 7		C. State Transporter's ID X472MC-15	
7. Transporter 2 Company Name EASTERN CHEMICAL WASTE SYSTEMS			8. US EPA ID Number D C D 9 8 1 0 3 5 5 0 4		D. Transporter's Phone 202 636-9555	
9. Designated Facility Name and Site Address ENVIRONMENTAL ENTERPRISES, INC. 4650 SPRING GROVE AVENUE CINCINNATI, OH 45232			10. US EPA ID Number D H D 0 8 3 3 7 7 0 1 0		E. State Transporter's ID	
					F. Transporter's Phone 202 636-9555	
					G. State Facility's ID	
					H. Facility's Phone 513 541-1823	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)			12. Containers No. Type	13. Total Quantity	14. Unit M/Vol	I. Waste No.
a. Waste Poison B Solids NOS Poison B UN 2811			002 DM	00400	P	D008
b.						
c.						
d.						
J. Additional Descriptions for Materials Listed Above a. Lab packs			K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.						
Printed/Typed Name LARRY D. MOCK			Signature Larry D. Mock		Date Month Day Year 02/19/86	
17. Transporter 1 Acknowledgement of Receipt of Materials			Signature Fred Hoffman		Date Month Day Year 02/19/86	
Printed/Typed Name Fred Hoffman			Signature Fred Hoffman		Date Month Day Year 02/19/86	
18. Transporter 2 Acknowledgement of Receipt of Materials			Signature		Date Month Day Year	
Printed/Typed Name			Signature		Date Month Day Year	
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19:						
Printed/Typed Name			Signature		Date Month Day Year	







# EASTERN CHEMICAL WASTE SYSTEMS

*management of environmental preservation*<sup>TM</sup>

Remedial Action, Handling, Underground Tank Clean-up & Removal, Hauling, Incineration, Disposal, Drum Crushing, Recycling, Emergency Spill Response, Laboratory Analytical Services, Detoxification  
USEPA IDENTIFICATION NO. DCD981035504

Facility address/shipping only:  
2619 Everts Street, N.E.  
Washington, D.C. 20018

April 17, 1986

Mailing address:  
Box 13085  
Washington, D.C. 20009  
(Red)

Mr. Roger Stix  
Vice President - Corporate Planning  
Transitron Electronics Corporation  
100 Unicorn Park Drive  
Woburn, MA 01801



Dear Roger:

This letter is to follow up on our previous communications. As you know, ECWS has been -- and remains -- ready, willing and able to proceed with the Trans Circuits cleanup project. ECWS shall continue to await your instructions. In the interim, there are a couple of concerns that I would like to address.

First, the escrow deposit of \$4,621.00 for work to be done in weeks five (5) and six (6) has not been made. This is inconsistent with the terms of section 5.2 of the Agreement. Second, based upon the appearance of portions of the concrete, we believe that Trans Circuits' testing of the concrete may have bypassed the "hot spots." This, in turn, could give an inaccurate impression that the concrete is free of contamination. We recommend that additional testing be done to resolve this issue. That testing may also suggest how to approach the disposal of the one-hundred (100) drums of concrete which ECWS is guaranteed by section A.1 of the Scope of Work.

I look forward to hearing from you.

Sincerely,

Mark V. Soresi, chemist  
President

EASTERN CHEMICAL WASTE SYSTEMS

RST.MS:rts

cc: Mr. Norb Dickmann, Project Manager

# TRANS/CIRCUITS, INC.

3509 Carlyn Spring Road, Falls Church, Virginia 22041 (703) 820-6405

April 24, 1986

ORIGINAL  
(Red)

Mr. Mark V. Soresi  
President  
Eastern Chemical Waste Systems  
2619 Evarts Street, N.E.  
Washington, D.C.



Dear Mark:

I am in receipt of your April 17, 1986 letter. I must say that I was shocked by your comment that our "testing of the concrete may have bypassed the 'hot spots'".

During the meeting with you and Norb Dickmann held on March 6, 1986 at which we, along with Larry Mock, jointly identified the locations to test, I agreed to test all of the locations you recommended. In fact, I suggested several additional locations which may have been "hot" which you did not recommend to test.

After we selected the areas to sample, neither you nor Norb expressed any concern that we had overlooked areas that should be tested. Additionally, in your letter to me dated March 13, 1986 in which you informed us of the test results, you did not mention any concerns about our testing locations, nor did you during our numerous telephone conversations. In fact, during the telephone conversation we had during which you orally gave me the test results you sounded pleased with the results and were of the opinion that the concrete was not contaminated.

Both Larry Mock and I are at a loss... We do not understand your motives for making this type of a statement. Since it is contained in your second paragraph which deals with your desire to do more work for us and the disposal of additional waste, I assume the comment was motivated by economic not environmental concerns.

Sincerely,

TRANS/CIRCUITS, INC.

A handwritten signature in cursive script, reading "Roger B. Stix".

Roger B. Stix  
Vice President



# EASTERN CHEMICAL WASTE SYSTEMS

*management of environmental preservation*™

Remedial Action, Handling, Underground Tank Clean-up & Removal, Hauling, Incineration, Disposal, Drum Crushing, Recycling, Emergency Spill Response, Laboratory Analytical Services, Detoxification  
USEPA IDENTIFICATION NO. DCD981035504

Facility address/shipping only:  
2619 Evarts Street, N.E.  
Washington, D.C. 20018

May 21, 1986

Mailing address:  
P.O. Box 13085  
Washington, D.C. 20009

Mr. Roger Stix  
Transitron Electronics Corporation  
100 Unicorn Drive  
Woburn, MA



ORIGINAL  
(Red)

Dear Roger:

I am sorry you were upset by my letter of April 17, 1986 where I advised more testing of the Concrete Pad for heavy metal contamination.

Be assured that our motives in suggesting additional testing are not economic. The only additional expense involved would be the cost of the labor and analytical work, neither of which involve any high profit for ECWS.

ECWS is guaranteed in our contract the disposal of a minimum of 100 drums of concrete from the pad. Our concern is that proper characterization be made of the concrete pad so that we can determine the appropriate method of disposal for these 100 drums of concrete. The preliminary testing would have been adequate for this characterization had it shown the material to be clearly E.P. toxic. The low results for the 21 initial samples do not preclude the potential for E.P. toxic levels of heavy metals in the top 1/4" of concrete, in the sand under the pad or elsewhere. It makes environmental sense to have us dispose of 100 drums of material taken from the worst areas rather than material taken at random or by guesswork. Our proposal for additional sampling and analysis to pinpoint these hotspots will be forwarded to you shortly.

Sincerely,

Mark V. Soresi, chemist  
President

TNS.MS:rts

Toll Free: 1-800-826-0518

Main Office in DC: (202) 636-9555

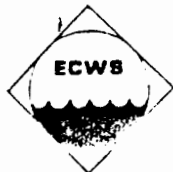
New York Office: (212) 242-3349

Pittsburgh Office: (412) 941-1229

Elizabeth, NJ: (201) 352-6550

Baltimore, MD: (301) 625-2500

Eastern Chemical Waste Systems is a division of TSCGI



# EASTERN CHEMICAL WASTE SYSTEMS

*management of environmental preservation™*

ORIGINAL  
(Red)

Remedial Action, Handling, Underground Tank Clean-up & Removal, Hauling, Incineration, Disposal,  
Drum Crushing, Recycling, Emergency Spill Response, Laboratory Analytical Services, Detoxification  
USEPA IDENTIFICATION NO. DCD981035504

Facility address/shipping only:  
2619 Evarts Street, N.E.  
Washington, D.C. 20018

March 13, 1986

Mailing address:  
P.O. Box 13085  
Washington, D.C. 20009

Mr. Roger Stix  
Transitron Electronics Corporation  
100 Unicorn Park Drive  
Woburn, MA 01801



Dear Roger:

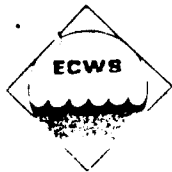
Enclosed are the results of EP Toxicity tests performed on 21 samples of concrete. These samples were taken by core drill up to a depth of two inches at various locations on the plating line pad.

Column A below lists the highest level found in any sample for each heavy metal. For your information, I have provided the levels that are regulated by the USEPA as hazardous waste in Column B.

	A		B
Arsenic	0.03 PPM		5.0 PPM
Barium	3 PPM		100 PPM
Cadmium	0.10 PPM		1.0 PPM
Chromium	1.0 PPM		5.0 PPM
Lead	4.9 PPM		5.0 PPM
Mercury	0.01 PPM		0.2 PPM
Selenium	0.01 PPM		1.0 PPM
Silver	0.04 PPM		5.0 PPM

In no case did the level of regulated metals in the samples exceed the EPA lower limits.

As you can see, the only metal where you approach the limits is in the case of lead. Only 2 samples exceed half of the regulated lower limit for lead; sample 10 at 3.7 PPM and sample



Mr. Roger Stix  
March 13, 1986  
Page Two

ORIGINAL  
(Red)

20 at 4.9 PPM. These samples were taken from next to the tin/fluoroborate tank and from the wall of the waste water pit, respectively.

If you have any questions about the results of these samples, please don't hesitate to call.

Sincerely,

Mark V. Soresi  
President

EASTERN CHEMICAL WASTE SYSTEMS

STIX2.MS:rts  
Enclosures



# EASTERN CHEMICAL WASTE SYSTEMS

*management of environmental preservation*<sup>TM</sup>

Remedial Action, Handling, Underground Tank Clean-up & Removal, Hauling, Incineration, Disposal,  
Drum Crushing, Recycling, Emergency Spill Response, Laboratory Analytical Services, Detoxification  
USEPA IDENTIFICATION NO. DCD981035504

Facility address/shipping only:  
2619 Evars Street, N.E.  
Washington, D.C. 20018

Mailing address:  
P.O. Box 13085  
Washington, D.C. 20009

## CERTIFICATE OF ANALYSIS

REPORT #: 860751

REPORT DATE: 3/6/86

CUSTOMER: Transcircuits

PAGE 1 of 5

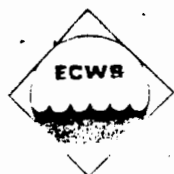
REPORT TO: Mr. Roger Stix

SAMPLE ID #: TCEP

---

EP TOXICITY	TCEP-01	TCEP-02	TCEP-03	TCEP-04
Arsenic (As)	< 0.01	< 0.01	< 0.01	< 0.01
Barium (Ba)	< 1	< 1	< 1	< 1
Cadmium (Cd)	0.10	0.05	0.03	0.01
Chromium (Cr)	0.1	0.4	0.1	0.4
Lead (Pb)	0.1	< 0.1	< 0.1	< 0.1
Mercury (Hg)	< 0.01	< 0.01	< 0.01	< 0.01
Selenium (Se)	< 0.01	< 0.01	< 0.01	< 0.01
Silver (Ag)	< 0.01	0.04	< 0.01	< 0.01

NOTE: The above results are expressed in mg/liter of extract (PPM).



CERTIFICATE OF ANALYSIS

REPORT #: 860751

REPORT DATE: 3/6/86

ORIGINAL  
(Red)

CUSTOMER: Transcircuits

PAGE 2 of 5

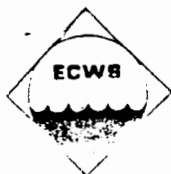
REPORT TO: Mr. Roger Stix

SAMPLE ID #: TCEP

---

EP TOXICITY	TCEP-05	TCEP-06	TCEP-07	TCEP-08
Arsenic (As)	< 0.01	< 0.01	< 0.01	< 0.01
Barium (Ba)	3	1	< 1	< 1
Cadmium (Cd)	0.03	0.01	0.01	0.01
Chromium (Cr)	0.2	0.2	1.0	0.2
Lead (Pb)	1.2	0.4	2.4	< 0.1
Mercury (Hg)	< 0.01	< 0.01	< 0.01	< 0.01
Selenium (Se)	< 0.01	< 0.01	< 0.01	< 0.01
Silver (Ag)	< 0.01	< 0.01	< 0.01	< 0.01

NOTE: The above results are expressed in mg/liter of extract (PPM).



ORIGINAL  
(Red)

CERTIFICATE OF ANALYSIS

REPORT #: 860751

REPORT DATE: 3/6/86

CUSTOMER: Transcircuits

PAGE 3 of 5

REPORT TO: Mr. Roger Stix

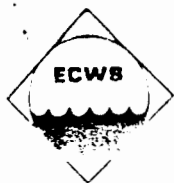
SAMPLE ID #: TCEP

---

EP TOXICITY	TCEP-09	TCEP-10	TCEP-11	TCEP-12
Arsenic (As)	< 0.01	0.03	< 0.01	< 0.01
Barium (Ba)	2	1	< 1	< 1.
Cadmium (Cd)	0.01	0.01	0.01	0.02
Chromium (Cr)	0.2	0.8	0.3	0.3
Lead (Pb)	< 0.1	3.7	0.1	0.1
Mercury (Hg)	< 0.01	< 0.01	< 0.01	< 0.01
Selenium (Se)	< 0.01	< 0.01	< 0.01	< 0.01
Silver (Ag)	< 0.01	< 0.01	< 0.01	< 0.01

NOTE: The above results are expressed in mg/liter of extract (PPM).





ORIGINAL  
(Red)

CERTIFICATE OF ANALYSIS

REPORT #: 860751

REPORT DATE: 3/6/86

CUSTOMER: Transcircuits

PAGE 4 of 5

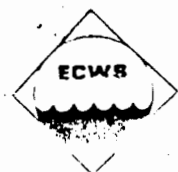
REPORT TO: Mr. Roger Stix

SAMPLE ID #: TCEP

---

EP TOXICITY	TCEP-13	TCEP-14	TCEP-15	TCEP-16
Arsenic (As)	< 0.01	< 0.01	< 0.01	< 0.01
Barium (Ba)	1	< 1	2	< 1
Cadmium (Cd)	0.02	0.01	0.01	0.01
Chromium (Cr)	0.2	0.2	0.3	0.1
Lead (Pb)	0.1	0.1	< 0.1	0.2
Mercury (Hg)	< 0.01	< 0.01	< 0.01	< 0.01
Selenium (Se)	< 0.01	< 0.01	< 0.01	< 0.01
Silver (Ag)	< 0.01	< 0.01	< 0.01	< 0.01

NOTE: The above results are expressed in mg/liter of extract (PPM).



ORIGINAL  
(Red)

CERTIFICATE OF ANALYSIS

REPORT #: 860751

REPORT DATE: 3/6/86

CUSTOMER: Transcircuits

PAGE 5 of 5

REPORT TO: Mr. Roger Stix

SAMPLE ID #: TCEP

---

EP TOXICITY	TCEP-17	TCEP-18	TCEP-19	TCEP-20	TCEP-21
Arsenic (As)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Barium (Ba)	2	< 1	< 1	1	1
Cadmium (Cd)	0.01	0.05	0.01	0.02	0.02
Chromium (Cr)	0.1	0.4	0.2	0.5	0.3
Lead (Pb)	0.1	1.1	0.2	4.9	0.2
Mercury (Hg)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Selenium (Se)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Silver (Ag)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

NOTE: The above results are expressed in mg/liter of extract (PPM).

Robert E. Brown  
Robert E. Brown, Senior Chemist  
EASTERN CHEMICAL WASTE SYSTEMS

STIXTST.ANA:rts

# GASCOYNE LABORATORIES, INC.

BALTIMORE, MARYLAND 21202

BALTIMORE  
(301) 539-0195  
SALISBURY  
(301) 543-1051

## CERTIFICATE OF ANALYSIS



ORIGINAL  
(7/67)

Report No. 86-0675-2

Report to: Eastern Chemical Waste Systems

Report Date 3-6-86

Sample I.D. Concrete samples marked as below:

<u>EP TOXICITY</u>	<u>TCEP-07</u>	<u>TCEP-08</u>	<u>TCEP-09</u>	<u>TCEP-010</u>	<u>TCEP-011</u>	<u>TCEP-012</u>
Arsenic (As)	< 0.01	< 0.01	< 0.01	0.03	< 0.01	< 0.01
Barium (Ba)	< 1	< 1	2	1	< 1	< 1
Cadmium (Cd)	< 0.01	0.01	0.01	0.01	0.01	0.02
Chromium, Total (Cr)	1.0	0.2	0.2	0.8	0.3	0.3
Lead (Pb)	2.4	< 0.1	< 0.1	3.7	0.1	0.1
Mercury (Hg)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Selenium (Se)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Silver (Ag)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

NOTE: The above results are expressed in mg/liter of extract.

  
GASCOYNE LABORATORIES, INC.

# GASCOYNE LABORATORIES, INC.

BALTIMORE, MARYLAND 21202

BALTIMORE  
(301) 539-0195

SALISBURY  
(301) 543-1051

## CERTIFICATE OF ANALYSIS



ORIGINAL  
(Red)

Report No. 86-0675-3

Report to: Eastern Chemical Waste Systems

Report Date 3-6-86

Sample I.D. Concrete samples marked as below:

EP TOXICITY	TCEP-013	TCEP-014	TCEP-015	TCEP-016	TCEP-017	TCEP-018
Arsenic (As)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Barium (Ba)	1	< 1	2	< 1	2	< 1
Cadmium (Cd)	0.02	0.01	0.01	0.01	0.01	0.05
Chromium, Total (Cr)	0.2	0.2	0.3	0.1	0.1	0.4
Lead (Pb)	0.1	0.1	< 0.1	0.2	0.1	1.1
Mercury (Hg)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Selenium (Se)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Silver (Ag)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

NOTE: The above results are expressed in mg/liter of extract.

GASCOYNE LABORATORIES, INC.

# GASCOYNE LABORATORIES, INC.

BALTIMORE, MARYLAND 21202

BALTIMORE  
(301) 539-0195  
SALISBURY  
(301) 543-1051

## CERTIFICATE OF ANALYSIS



ORIGINAL  
(Red)

Report No. 86-0675-4


Report to: Eastern Chemical Waste Systems

Report Date 3-6-86

Sample I.D. Concrete samples marked as below:

<u>EP TOXICITY</u>	<u>TCEP-019</u>	<u>TCEP-020</u>	<u>TCEP-021</u>
Arsenic (As)	< 0.01	< 0.01	< 0.01
Barium (Ba)	< 1	1	1
Cadmium (Cd)	0.01	0.02	0.02
Chromium, Total (Cr)	0.2	0.5	0.3
Lead (Pb)	0.2	4.9	0.2
Mercury (Hg)	< 0.01	< 0.01	< 0.01
Selenium (Se)	< 0.01	< 0.01	< 0.01
Silver (Ag)	< 0.01	< 0.01	< 0.01

NOTE: The above results are expressed in mg/liter of extract.

  
GASCOYNE LABORATORIES, INC.



ATT. ☐ DIS. ☐ REJ. ☐

Failure to file is punishable under  
section 299.548 MCL or Section 10 of  
Act 136, P.A. 1969.

Please print or type

Form Approved OMB No 2000-0404 Expires 7-31-86

UNIFORM HAZARDOUS WASTE MANIFEST			1. Generator's US EPA ID No V A D 0 4 1 9 6 2 0 3 6		Manifest Document No 0 1 1 4 1		2. Page 1 of 1		Information in the shaded areas is not required by Federal law			
3. Generator's Name and Mailing Address TRANS CIRCUITS 3509 CARLYN SPRINGS RD, FALLS CHURCH, VA 22041					A. State Manifest Document Number MI 0846127		ORIGINAL					
4. Generator's Phone (703) 820-6405					B. State Generator's ID SAME							
5. Transporter 1 Company Name EASTERN CHEMICAL WASTE SYSTEMS					6. US EPA ID Number D I C D 9 8 0 8 2 8 8 6 7		C. State Transporter's ID					
7. Transporter 2 Company Name					8. US EPA ID Number		D. Transporter's Phone 202 636-9555					
9. Designated Facility Name and Site Address CHEM MET 18550 ALLEN ROAD WYANDOTTE, MI 48192					10. US EPA ID Number M I D 0 9 6 9 6 3 1 9 4		E. State Transporter's ID					
							F. Transporter's Phone					
							G. State Facility's ID					
							H. Facility's Phone 313-282-9250					
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)					12. Containers No. Type		13. Total Quantity		14. Unit M/Vol		15. Waste No. N/H	
a. Waste Corrosive Liquid NOS X Corrosive Material UN1760					015 D F 008 25 G		D 002 H					
b. Waste Corrosive Liquid NOS X Corrosive Material UN1760					007 D F 003 85 G		D 002 H					
c.												
d.												
J. Additional Descriptions for Materials Listed Above					K. Handling Codes for Wastes Listed Above					a/ b/ c/ d/		
a. Mixed Acids w/ Heavy Metals												
b. CuSO4 and Mixed Acids w/ Heavy Metals												
15. Special Handling Instructions and Additional Information												
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.  Unless I am a small quantity generator who has been exempted by statute or regulation from the duty to make a waste minimization certification under Section 3002(b) of RCRA, I also certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and I have selected the method of treatment, storage or disposal currently available to me which minimizes the present and future threat to human health and the environment.												
Printed/Typed Name LARRY D. MOCK					Signature <i>Larry D. Mock</i>					Date Month Day Year 02/19/86		
17. Transporter 1 Acknowledgement of Receipt for Materials										Date		
Printed/Typed Name Bob Paolucci					Signature <i>Bob Paolucci</i>					Month Day Year 02/19/86		
18. Transporter 2 Acknowledgement or Receipt for Materials										Date		
Printed/Typed Name					Signature					Month Day Year		
19. Discrepancy Indication Space												
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.												
Printed/Typed Name					Signature					Date Month Day Year		

ORIGINAL  
(Red)

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest  
Document No.

2. Page 1  
of 1

Information in the shaded areas is  
not required by Federal law.

3. Generator's Name and Mailing Address  
LARRY MOCK c/o  
TRANS CIRCUITS INC.  
3509 CARLYN SPRING RD, FALLS CHURCH, VA 22041  
4. Generator's Phone (703) 820-6405

A. State Manifest Document Number  
01150

B. State Generator's ID  
Same

5. Transporter 1 Company Name  
EASTERN CHEMICAL WASTE SYSTEMS  
6. US EPA ID Number  
D C D 9 8 0 8 2 8 8 6 7

C. State Transporter's ID  
D. Transporter's Phone 202-636-9555

7. Transporter 2 Company Name  
EASTERN CHEMICAL WASTE SYSTEMS  
8. US EPA ID Number  
D C D 9 8 1 0 3 5 5 0 4

E. State Transporter's ID  
F. Transporter's Phone 202-636-9555

9. Designated Facility Name and Site Address  
ENVIRONMENTAL ENTERPRISES, INC.  
4650 SRPING GROVE AVENUE  
CINCINNATI, OH 45232  
10. US EPA ID Number  
O H D 0 8 3 3 7 7 0 1 0

G. State Facility's ID  
H. Facility's Phone 513-541-1823

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

12. Containers  
No. Type

13. Total  
Quantity

14. Unit  
Wt/Vol

15. Waste No.

Waste Oxidizer NOS  
X Oxidizer UN1479

009

DF

0495

G

0003

Waste Hydrogen Peroxide Solution  
X Oxidizer UN2014

003

DF

0165

G

0003

Waste Isopropyl Alcohol  
X Flammable Liquid UN1219

DM

DM

0001

G

0001

Waste Hazardous Liquid NOS  
X ORM-F NA9189

003

DF

0165

G

0003

Additional Descriptions for Materials Listed Above

Handling Codes for Waste Listed Above

Sodium Persulfate 4330

Handling Code for Waste Listed Above

Methylene Chloride Sludge 4333

Handling Code for Waste Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

Unless I am a small quantity generator who has been exempted by statute or regulation from the duty to make a waste minimization certification under Section 3002(b) of RCRA, I also certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and I have selected the method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment.

Printed/Typed Name  
Samuel C. Rowland  
Signature  
Samuel C Rowland  
Month Day Year  
10 2 24 86

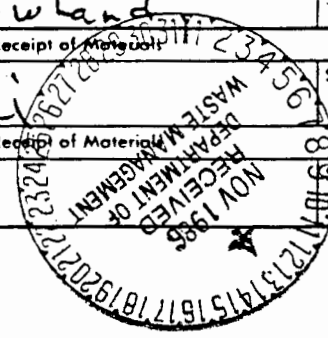
17. Transporter 1 Acknowledgement of Receipt of Materials  
Printed/Typed Name  
Bob Paolucci  
Signature  
Bob Paolucci  
Month Day Year  
10 24 86

18. Transporter 2 Acknowledgement of Receipt of Materials  
Printed/Typed Name  
Signature  
Month Day Year

19. Discrepancy Indication Space

J. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name  
Signature  
Month Day Year



GENERATOR

TRANSPORTER

ITY

ORIGINAL  
(Red)

Published by T. T. REEVE &amp; ASSOCIATES, Inc. Research Wt. 1455A-0324

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. V-A-D-0-4-1-9-6-2-0-3-6	Manifest Document No. 0-1-1-5-1	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address LARRY MOCK c/o TRANS CIRCUITS INC. 3509 CARLYN SPRING RD, FALLS CHURCH, VA 22041				A. State Manifest Document Number 01151	
4. Generator's Phone ( 703 820-6405				B. State Generator's ID same	
5. Transporter 1 Company Name EASTERN CHEMICAL WASTE SYSTEMS				C. State Transporter's ID same	
6. US EPA ID Number D-C-D-9-8-0-8-2-8-8-6-7				D. Transporter's Phone 202-636-9555	
7. Transporter 2 Company Name EASTERN CHEMICAL WASTE SYSTEMS				E. State Transporter's ID same	
8. US EPA ID Number D-C-D-9-8-1-0-3-5-5-0-4				F. Transporter's Phone 202-636-9555	
9. Designated Facility Name and Site Address ENVIRONMENTAL ENTERPRISES, INC. 4650 SRPING GROVE AVENUE CINCINNATI, OH 45232				G. State Facility's ID same	
10. US EPA ID Number O-H-D-0-8-3-3-7-7-0-1-0				H. Facility's Phone 513-541-1823	
US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers		13. Total Quantity	14. Unit Wt/Vol
HM		No.	Type		
X	Waste Combustible Liquid NOS Combustible Liquid NA1993	001	DM	0055	G
	Waste Oxidizer, Corrosive Liquid, NOS OXIDIZER NA 9193	003	DF	0165	G
Additional Descriptions for Materials Listed Above		Hazardous Codes for Wastes Listed Above			
Butyl Cellulosolve Screen Cleaning 4334		4334			
H <sub>2</sub> O and H <sub>2</sub> SO <sub>4</sub> Code 4324		4324			
15. Special Handling Instructions and Additional Information					
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations. Unless I am a small quantity generator who has been exempted by statute or regulation from the duty to make a waste minimization certification under Section 3002(b) of RCRA, I also certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and I have selected the method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment.					
Printed/Typed Name Samuel C. Rowland		Signature Samuel C Rowland		Month Day Year 10 22 1986	
17. Transporter 1 Acknowledgement of Receipt of Materials					
Printed/Typed Name Bob Paolucci		Signature Bob Paolucci		Month Day Year 10 22 1986	
18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed/Typed Name		Signature		Month Day Year	
19. Discrepancy Indication Space					
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.					





ORIGINAL  
(Red)

Form Approved OMB No. 2000-0404. Expires 7-31-86

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1- Generator's US EPA ID No. V A D O 4 1 S E 2 0 3 6 B I 1 4 3	2 Page 1 of 1	Information in the shaded areas is not required by Federal law *
3. Generator's Name and Mailing Address <b>TPARS CIRCUITS INC.</b> <b>3509 CARYL STRINGS RD, FALLS CHURCH, VA 22041</b> 4. Generator's Phone ( 703 ) 820-5405		A. State Manifest Document Number <b>NJA0131848</b>		
5. Transporter 1 Company Name <b>EASTERN CHEMICAL WASTE SYSTEMS</b>		B. State DOT ID <b>STATE</b>		
6. US EPA ID Number <b>01C101910101218181617</b>		C. State Transporter ID <b>510325/10507</b>		
7. Transporter 2 Company Name <b>EASTERN CHEMICAL WASTE SYSTEMS</b>		D. Transporter's Phone <b>202 636-9555</b>		
8. Designated Facility Name and Site Address <b>IMPORT CHAMBER WORKS DEERWATER, NJ 08023</b>		E. State Transporter 2 ID <b>510325/10507</b>		
		F. Transporter's Phone <b>202 636-9555</b>		
		G. State Facility's ID <b>009 299-0607</b>		
		H. Facility's Phone <b>009 299-0607</b>		
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12 Containers No. Type Total Quantity		
Waste Corrosive Liquid w/w Corrosive Material UN1760		13. 14. 15. Waste No. 901 RT 02240 G 0002		
16. Additional Descriptions for Materials Listed Above Contract #009131 Release #001 Copper Sulfate/Sulfuric Acid Solution		R. Handling codes for Wastes Listed Above 51A		
d. Special Handling Instructions and Additional Information				
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. Unless I am a small quantity generator who has been exempted by statute or regulation from the duty to make a waste minimization certification under Section 3002(b) of RCRA, I also certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and I have selected the method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment.				
Printed/Typed Name		Signature		
17. Transporter 1 Acknowledgement of Receipt of Materials		Date		
Printed/Typed Name <b>BLAIR B CLARK</b>		Signature <b>RBC Clark</b>		
18. Transporter 2 Acknowledgement of Receipt of Materials		Date		
Printed/Typed Name <b>LARRY D. MOCK</b>		Signature <b>Larry J. Mock</b>		
19. Discrepancy Indication Space				
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.				
Printed/Typed Name		Signature		
		Date		

in case of an emergency or spill immediately call the state the emergency occurred in and the N.J. Dept. of Environmental Protection. (800) 232-5580 (Day) (609) 232-7112 (Night)

READ INSTRUCTIONS ON BACK OF MANIFEST

**DNR**  
MICHIGAN DEPARTMENT  
OF NATURAL RESOURCES

DO NOT WRITE IN THIS SPACE

ATT. ☐ DIS. ☐ REJ. ☐

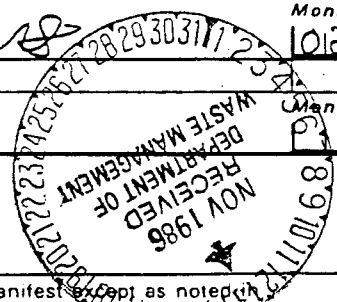
Required under authority of Act 64, P.A. 1979, as amended and Act 136, P.A. 1969.

Failure to file this manifest under section 299.548 MCL is a violation of Act 136, P.A. 1969. (Red)

Please print or type.

Form Approved OMB No. 2000-0404 Expires 7-31-86

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. VIAD041962036101172		Manifest Document No. 101172		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address Transcuits, Inc 3509 Carlyn Springs Road Halls Church VA		4. Generator's Phone (703) 820-6405		5. Transporter 1 Company Name Eastern Chemical Waste Systems		6. US EPA ID Number DCD98108218867		A. State Manifest Document Number MI-0846147	
7. Transporter 2 Company Name		8. US EPA ID Number		9. Designated Facility Name and Site Address Chem-Hut Services 18550 Allen Road Wyandotte MI 48192		10. USEPA ID Number MIID0169163194		B. State Generator's ID STATE	
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER)		12. Containers		13. Total Quantity		14. Unit		15. Waste No.	
a. X Waste Corrosive Liquid NOS Corrosive Material UN 1760		001 TT		035.00		G		01202 H	
b.									
c.									
d.									
15. Special Handling Instructions and Additional Information		16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.		17. Transporter 1 Acknowledgement of Receipt of Materials		18. Transporter 2 Acknowledgement or Receipt of Materials		19. Discrepancy Indication Space	
Printed/Typed Name LARRY MOCK		Signature Larry Mock		Printed/Typed Name BLAIR B CLARK		Signature BB Clark		Date 10/22/78	
17. Transporter 1 Acknowledgement of Receipt of Materials		18. Transporter 2 Acknowledgement or Receipt of Materials		19. Discrepancy Indication Space		20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted on item 19		Date 10/22/78	
Printed/Typed Name		Signature		Date		Date		Date	



ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-255-4706 OR OUT OF STATE AT 817-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-9347 HOURS PER DAY.

**DNR**  
**MICHIGAN DEPARTMENT**  
**OF NATURAL RESOURCES**

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Required under authority of Act 64, P.A. 1976, as amended and Act 136, P.A. 1980.

Failure to file is punishable under section 299.546 MCL or Section 10 of Act 136, P.A. 1980.

**I**

Form Approved OMB No. 2000-0404 Expires 7-31-86

base print or type

**UNIFORM HAZARDOUS**  
**WASTE MANIFEST**

1. Generator's US EPA ID No.

Manifest  
Document No.

2. Page 1  
of 1

Information in the shaded areas  
is not required by Federal  
law.

3. Generator's Name and Mailing Address

**TRANS CEMENT INC.**  
**3509 CHERRY SPRINGS RD, FALLS CHURCH, VA 22041**

4. Generator's Phone (703) 838-6405

5. Transporter 1 Company Name

6. US EPA ID Number

**EASTERN CHEMICAL WASTE SYSTEMS**

**D E C D 9 8 0 8 2 8 0 0 7**

7. Transporter 2 Company Name

8. US EPA ID Number

**EASTERN CHEMICAL WASTE SYSTEMS**

**D E C D 9 8 1 0 3 5 5 0 4**

9. Designated Facility Name and Site Address

10. US EPA ID Number

**CHICKEN**  
**18550 ALLEN ROAD**  
**WINDSOR, MI 48192**

**M I D 9 8 0 6 3 1 9 4**

11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER)

12. Containers  
No. Type

13. Total  
Quantity

14. Unit  
Vol

a. **X** Waste Corrosive Liquid NOS  
Corrosive Material UN1760

**001** **D F** **00055** **e**

b. **X** Waste Corrosive Liquid NOS  
Corrosive Material UN1760

**004** **D F** **00220** **e**

c. **X** Waste Acid Liquid NOS  
Corrosive Material UN1760

**010** **D F** **00550** **e**

d. **X** Waste Hazardous Solid NOS  
ORM-E NA9189

**009** **D F** **00495** **e**

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

Unless I am a small quantity generator who has been exempted by statute or regulation from the duty to make a waste minimization certification under Section 3002(b) of RCRA, I also certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and I have selected the method of treatment, storage or disposal currently available to me which minimizes the present and future threat to human health and the environment.

Printed/Typed Name  
**SAMUEL C. ROWLAND**

Signature  
**Samuel C Rowland**

Date  
Month Day Year  
**07 28 86**

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name  
**Theodore Lilly**

Signature  
**Theodore Lilly**

Date  
Month Day Year  
**07 28 86**

18. Transporter 2 Acknowledgement or Receipt of Materials

Printed/Typed Name  
**SAMUEL C ROWLAND**

Signature  
**Samuel C Rowland**

Date  
Month Day Year  
**07 28 86**

19. Discrepancy Indication Space

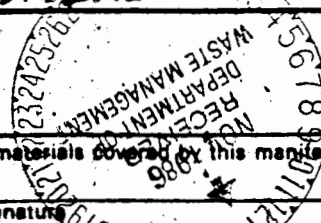
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Date  
Month Day Year

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-252-4706 OR OUT OF STATE AT 617-373-7666 AND THE NATIONAL RESPONSE CENTER 24 HOURS PER DAY.

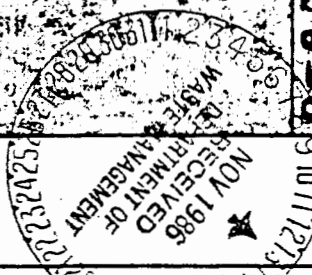


ORIGINAL  
(Red)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. V. A. D. 0. 4. 1. 9. 6. 2. 0. 3. 6	Manifest Document No. 0 1 1 6 1	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address <b>TRANS CIRCUITS INC.</b> <b>3509 CARLYN SPRINGS RD, FALLS CHURCH, VA 22041</b>				A. State Manifest Document Number <b>01161</b>		
4. Generator's Phone ( 703 ) 820-6405				B. State Generator's ID <b>00000</b>		
5. Transporter 1 Company Name <b>EASTERN CHEMICAL WASTE SYSTEMS</b>		6. US EPA ID Number <b>D.C.D.9.8.0.8.2.8.8.6.7</b>		C. State Transporter's ID <b>202 636-9555</b>		
7. Transporter 2 Company Name <b>EASTERN CHEMICAL WASTE SYSTEMS</b>		8. US EPA ID Number <b>D.C.D.9.8.1.0.3.5.5.0.4</b>		E. State Transporter's ID <b>202 636-9555</b>		
9. Designated Facility Name and Site Address <b>ENVIRONMENTAL ENTERPRISES INC.</b> <b>4650 SPRING GROVE AVENUE</b> <b>CINCINNATI, OH 45232</b>		10. US EPA ID Number <b>O.E.D.0.8.3.3.7.7.0.1.0</b>		G. State Facility's ID <b>313 541-1883</b>		
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)				12. Containers	13. Total Quantity	14. Unit Wt/Vol
				No.	Type	Waste No.
a.	WASTE OXIDIZER, CORROSIVE LIQUID NOS OXIDIZER NA 9198			006	DM	00330 G 0002
b.	WASTE ISOPROPANOL FLAMMABLE LIQUID UN 1219			002	DM	00110 G 0001
c.	WASTE FLAMMABLE LIQUID NOS FLAMMABLE LIQUID UN 1993			002	DM	00110 G 0001
d.						
J. Additional Descriptions for Materials Listed Above				K. Handling Codes for Wastes Listed Above		
a. Hydrogen Peroxide / Acid # 4324				0. T		
b. # 4302				0. 6		
c. ISOPROPANOL / GLYCOL FLUX # 4946				0. 6		
15. Special Handling Instructions and Additional Information						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are truly and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.						
Unless I am a small quantity generator who has been exempted by statute or regulation from the duty to make a waste minimization certification under Section 3002(b) of RCRA, I also certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and I have selected the method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment.						
Printed/Typed Name <b>Samuel C. Rowland</b>				Signature <b>Samuel C Rowland</b>		Month Day Year <b>10 2 21 86</b>
17. Transporter 1 Acknowledgement of Receipt of Materials						
Printed/Typed Name <b>Theodore C. Lilly</b>				Signature <b>Theodore C. Lilly</b>		Month Day Year <b>10 2 28 86</b>
18. Transporter 2 Acknowledgement of Receipt of Materials						
Printed/Typed Name <b>Samuel C Rowland</b>				Signature <b>Samuel C Rowland</b>		Month Day Year <b>2 7 86</b>
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.						
Printed/Typed Name				Signature		Month Day Year

GENERATOR

TRANSPORTER



**DNR**  
**MICHIGAN DEPARTMENT**  
**OF NATURAL RESOURCES**

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1979, as amended and Act 136, PA 1969

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, PA, 1969.

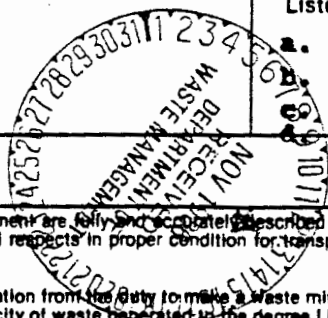
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base print or type

Form Approved 0400-0404 Expires 7.31.86

UNIFORM HAZARDOUS WASTE MANIFEST		Generator's US EPA ID No. Manifest Document No.		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address TRANS CIRCUITS 3509 CARLYN SPRINGS RD, FALLS CHURCH, VA 22041		VAD041962036011186		A. State Manifest Document Number MI 0846154		B. State Generator's ID same	
4. Generator's Phone ( 703 ) 820-6405		5. Transporter 1 Company Name EASTERN CHEMICAL WASTE SYSTEMS		6. US EPA ID Number DCD980828867		C. State Transporter's ID	
7. Transporter 2 Company Name EASTERN CHEMICAL WASTE SYSTEMS		8. US EPA ID Number DCD981035504		D. Transporter's Phone 202 636-9555		E. State Transporter's ID	
9. Designated Facility Name and Site Address CHEM MPT 18550 ALLEN ROAD WYANDOTTE, MI 48192		10. US EPA ID Number MID096963194		F. Transporter's Phone 202 636-9555		G. State Facility's ID	
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM)		12. Containers		13. Total Quantity		14. Unit	
		No. Type		Quantity		Unit	
a. Waste Hazardous Liquid NOS ORM-E NA9189		001 D		00055		G 029 L N	
b. X Waste Lead Chloride ORM-B NA2291		001 D F		00055		G 000 B H	
c. Waste Hazardous Liquid NOS ORM-E NA9189		002 D M		00110		G 029 L N	
d. Waste Oil, NOS Combustible Liquid NA1270		003 D M		00165		G 020 L N	
J. Additional Descriptions for Materials Listed Above		K. Handling Codes for Wastes Listed Above		a. /		b. /	
a. Copper Sulfate, and Oil		a. T		c. /		d. /	
c. Butyl Carbitol		b. T					
d. Lubricating and Hydraulic Oil		c. T					
15. Special Handling Instructions and Additional Information		16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.					
17. Transporter 1 Acknowledgement of Receipt of Materials		18. Transporter 2 Acknowledgement of Receipt of Materials		19. Discrepancy Indication Space		20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.	
Printed/Typed Name LARRY MOCK		Signature Larry Mock		Date 022886		Date 022886	
Printed/Typed Name Theodore C Lilly		Signature Theodore C. Lilly		Date 022886		Date 022886	
Printed/Typed Name		Signature		Date		Date	
Printed/Typed Name		Signature		Date		Date	
Printed/Typed Name		Signature		Date		Date	

BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY RESPONSE SYSTEM, IN W 3/ 1-800-292-4706 OR OUT OF STATE AT 517-373-7860 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-6802 24 HOURS PER DAY.







MICHIGAN DEPARTMENT  
OF NATURAL RESOURCES

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1979, as amended and Act 136, PA  
1969.

Failure to file is punishable under  
section 299.548 MCL or Section 10 of  
Act 136, PA 1969.

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Form Approved OMB No 2000-0404 Expires 7-31-96

UNIFORM HAZARDOUS  
WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest  
Document No.

2. Page 1

Information in the shaded areas  
is not required by Federal  
law

3. Generator's Mailing Address

LARRY MOCK c/o

A. State Manifest Document Number

MI 0846153

TRANS CIRCUITS INC.

B. State Generator's ID

Same

3509 CARLYN SPRINGS RD, FALLS CHURCH, VA 22041

4. Generator's Phone (703) 820-6405

C. State Transporter's ID

D. Transporter's Phone 202 636-9555

5. Transporter 1 Company Name

6. US EPA ID Number

EASTERN CHEMICAL WASTE SYSTEMS

DCD 980828867

7. Transporter 2 Company Name

8. US EPA ID Number

EASTERN CHEMICAL WASTE SYSTEMS

DCD 980828867

E. State Transporter's ID

F. Transporter's Phone 202 636-9555

9. Designated Facility Name and Site Address

10. US EPA ID Number

CHEM MET

18550 ALLEN ROAD

RYANDOTTE, MI 48192

G. State Facility's ID

H. Facility's Phone

313 282-9250

MI D 096963194

11. US DOT Description (including Proper Shipping Name, Hazard Class, and  
HM ID NUMBER).

12. Containers

13. Total  
Quantity

14. Unit  
M/Vol

1. Waste  
No.

N/H

a.

X

Waste Corrosive Liquid NOS

Corrosive Material UN1760

DF

G

D 002

H

b.

X

Waste Hazardous Liquid NOS

ORM-E NA9189

001 DM

00055

G

O 16 L

N

c.

X

Waste Corrosive Liquid NOS

Corrosive Material UN1760

DF

G

D 002

H

d.

X

Waste Hazardous Solid NOS

ORM-E NA9189

001 DF

00400 P

d

O 1 D

H

J. Additional Descriptions for Materials Listed Above

~~a. Rainwater, Oil, Acid and Copper Sulfate~~

b. Antifoam, Water based

~~c. Tin Lead Fluoroborate, Boric Acid~~

d. Copper Crystals CuSO<sub>4</sub>

K. Handling Codes for Wastes  
Listed Above

a. T

b. T

c. T

d. T

a/ /

b/ /

c/ /

d/ /

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by  
proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway  
according to applicable international and national government regulations.

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of RCRA, I also certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practica-  
ble and I have selected the method of treatment, storage or disposal currently available to me which minimizes the present and future threat to human health and the  
environment.

Printed/Typed Name

LARRY MOCK

Signature

*Larry Mock*

Date  
Month Day Year  
19 22 98

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Theodore C. Lilly

Signature

*Theodore C. Lilly*

Date  
Month Day Year  
02 31 98

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Date  
Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in  
Item 19.

Printed/Typed Name

Signature

Date  
Month Day Year

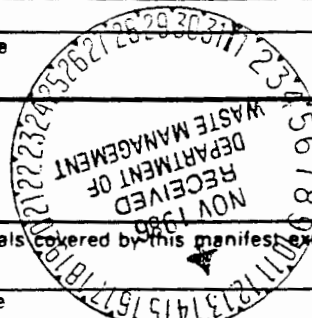
AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7860 AND THE NATIONAL RESPONSE

ATING SYSTEM, IN A

REPORTING SYSTEM, IN A

ST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENC

ALL CENT. AT 1-800-424-8602 24 HOURS PER DAY.



ATT. ☐ DIS. ☐ REJ. ☐

Failure to file is punishable under  
section 299.548 MCL or Section 10 of  
Act 136 PA 1989

**Please print or type.**

Form Approved OMB No 2000-0404 Expires 7-31-98

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		Generator's US-EPA ID No. <b>V A D 0 4 1 9 6 2 0 3 6 0 1 1 8 5</b>		Manifest Document No. <b>of 1</b>		2 Page 1		Information in the shaded areas is not required by Federal law.									
3. Generator's Name and Mailing Address <b>TRANS CIRCUITS INC. 3509 CARLYN SPRINGS RD, FALLS CHURCH, VA 22041</b>						A. State Manifest Document Number <b>MI 0846152</b>											
4. Generator's Phone (703) 820-6405						B. State Generator's ID <b>SAME</b>											
5. Transporter 1 Company Name <b>EASTERN CHEMICAL WASTE SYSTEMS</b>			6. US EPA ID Number <b>D C D 9 8 0 8 2 8 8 6 7</b>			C. State Transporter's ID											
7. Transporter 2 Company Name <b>EASTERN CHEMICAL WASTE SYSTEMS</b>			8. US EPA ID Number <b>D C D 9 8 1 0 3 5 5 0 4</b>			D. Transporter's Phone 202 636-9555											
9. Designated Facility Name and Site Address <b>CHEM MET 18550 ALLEN ROAD WYANDOTTE, MI 48192</b>						E. State Transporter's ID											
10. US EPA ID Number <b>MI D 0 9 6 9 6 3 1 9 4</b>						F. Transporter's Phone 202 636-9555											
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM)						12. Containers		13. Total Quantity		14. Unit		1. Waste No.		N/H			
a. <b>Waste Hazardous Liquid NOS ORM-E NA 9189</b>						<b>001</b> <b>DF</b>		<b>00055</b>		<b>G</b>		<b>0 1 6 L</b>		<b>N</b>			
b. <del><b>Waste Acid Liquid NOS Corrosive Material NA1700</b></del>						<del><b>001</b> <b>DF</b></del>		<del><b>00055</b></del>		<del><b>G</b></del>		<del><b>0 1 6 L</b></del>		<del><b>N</b></del>			
c. <b>Waste Hazardous Liquid NOS ORM-E NA9189</b>						<b>008</b> <b>DF</b>		<b>00440</b>		<b>G</b>		<b>0 0 0 8</b>		<b>H</b>			
d. <b>Waste Alkaline Liquid NOS Corrosive Material NA1719</b>						<b>002</b> <b>DF</b>		<b>00110</b>		<b>G</b>		<b>0 0 0 2</b>		<b>H</b>			
J. Additional Descriptions for Materials Listed Above						K. Handling Codes for Wastes Listed Above						a/ /					
a. <b>Floor Wax</b>						a. <b>T</b>						b/ /					
b. <del><b>Waste Acid Liquid NOS</b></del>						b. <b>T</b>						c/ /					
c. <b>Lead/Tin/Copper Sludge</b>						c. <b>T</b>						d/ /					
d. <b>Alkali Stripper</b>						d. <b>T</b>											
15. Special Handling Instructions and Additional Information																	
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Printed/Typed Name <b>LARRY MOCK</b>										Signature <i>Larry Mock</i>				Date <b>10/22/86</b>			
17. Transporter 1 Acknowledgement of Receipt of Materials										Date							
Printed/Typed Name <b>Theodore C. Lilly</b>										Signature <i>Theodore C. Lilly</i>				Month Day Year <b>10/22/86</b>			
18. Transporter 2 Acknowledgement of Receipt of Materials										Date							
Printed/Typed Name										Signature				Month Day Year			
19. Discrepancy Indication Space																	
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.																	
Printed/Typed Name										Signature				Date Month Day Year			

1-800-292-4706 OR OUT OF STATE AT 517-373-7600 AND THE NATIONAL RESPONSE

IO SYSTEM, IN A

MICHIGAN POLLUTION EMERGENCY AL

**REPORTED TO THE**

ALL

**MICHIGAN DEPARTMENT  
OF NATURAL RESOURCES**

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ATT. ☐ DIS. ☐ REJ. ☐

Required under authority of Act 64, P.A.  
1979, as amended and Act 136, P.A.  
1988.

Failure to file is punishable under  
section 299.548 MCL or Section 10 of  
Act 136, P.A. 1969.

**Please print or type**

Form Approved OMB No. 2000-0404 Expires 7-31-86

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		Generator's US EPA ID No. <b>VAID0419620361</b>		Manifest Document No.		2. Page 1 of		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address <b>Transcruits, Inc</b> <b>3509 Carlyn Springs Rd, Falls Church VA 22104</b>				A. State Manifest Document Number <b>MI 0846190</b>					
4. Generator's Phone (703) 820-6405				B. State Generator's ID <b>SAME</b>					
5. Transporter 1 Company Name <b>Eastern Chemical Waste Systems</b>				US EPA ID Number <b>DCD9808288617</b>		C. State Transporter's ID <b>ORIGINAL</b>			
6. Transporter 2 Company Name <b>Eastern Chemical Waste Systems</b>				US EPA ID Number <b>DCD9810355014</b>		D. Transporter's Phone (202) 636-9555			
7. Designated Facility Name and Site Address <b>Chem Met Services</b> <b>18550 Allen Road</b> <b>Wyandotte MI 48192</b>				US EPA ID Number <b>MI96963194</b>		E. State Facility's ID <b>(313) 283-9250</b>			
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)				12. Containers		13. Total Quantity		14. Unit	
				No. Type		Quantity		Wt/Vol	
a. <input checked="" type="checkbox"/> Waste Alkaline Liquids NOS Corrosive Material NA 1719				005 D F 00275 G		0007 H			
b. <input type="checkbox"/> Waste Sodium hypochlorite Solution w/ NMT 7% Available Chlorine by weight ORM-B NA 1711				001 D F 00055 G		0002 L			
c. <input checked="" type="checkbox"/> Waste Corrosive Liquid NOS Corrosive Material UN 1760				001 D M 00055 G		0002 H			
d. <input type="checkbox"/> Waste Hazardous Solid NOS ORME NA 9189				001 D F 00055 G		0002 H			
15. Special Handling Instructions and Additional Information				K. Handling Codes for Wastes Listed Above					
1. Alkaline sludge w/ copper for metal 2. Methanol 3. Copper 4. Copper				a/ 1					
				b/ 1					
				c/ 1					
				d/ 1					
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.									
Unless I am a small quantity generator who has been exempted by statute or regulation from the duty to make a waste minimization certification under Section 3002(b) of RCRA, I also certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and I have selected the method of treatment, storage or disposal currently available to me which minimizes the present and future threat to human health and the environment.									
Printed/Typed Name <b>R. L. WALTERS</b>				Signature <b>R. L. Walters</b>				Date <b>3 7 86</b>	
17. Transporter 1 Acknowledgement of Receipt of Materials				Date					
Printed/Typed Name <b>Ricky D. Richardson</b>				Signature <b>Ricky D. Richardson</b>				Date <b>3 7 86</b>	
18. Transporter 2 Acknowledgement of Receipt of Materials				Date					
Printed/Typed Name				Signature				Date	
19. Discrepancy Indication Space									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.									
Printed/Typed Name				Signature				Date	

ALL SPI - MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MIC"AN AT 1-800-292-4708 OR OUT OF STATE AT 817-373-7860 AND THE NATIONAL RESPONSE CENT  
800-424-8802 24 HOURS PER DAY.



**DNR**  
**MICHIGAN DEPARTMENT**  
**OF NATURAL RESOURCES**

DO NOT WRITE IN THIS SPACE (Red)  
ATT. ☐ DIS. ☐ REJ. ☐

ORIGINAL

Required under authority of Act 64, P.A. 1979, as amended and Act 136, P.A. 1969.

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

Form Approved OMB No 2000-0404 Expires 7-31-86

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of	Information in the shaded areas is not required by Federal law	
3. Generator's Name and Mailing Address		VAD10419162036		A. State Manifest Document Number		
Transcircuit, Inc				MI 0846189		
3509 Carlyn Springs Rd. Falls Church VA				B. State Generator's ID		
4. Generator's Phone (703) 820-6405				SAME		
5. Transporter 1 Company Name		US EPA ID Number		C. State Transporter's ID		
Eastern Chemical Waste Systems		DCD980828867				
7. Transporter 2 Company Name		US EPA ID Number		E. State Transporter's ID		
Eastern Chemical Waste Systems		DCD981035504				
8. Designated Facility Name and Site Address		US EPA ID Number		G. State Facility's ID		
Chem Met Services						
18550 Aiken Road		096963194		H. Facility's Phone		
Wyandotte MI 48192		MID		(313) 282-9250		
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER)			12. Containers No.	13. Total Quantity	14. Unit	15. Waste No. NH
a. X Waste Corrosive Liquids NOS						
Corrosive Material UN1760			003	DF001.65	G	0002 H
b. X Waste Corrosive Liquids NOS						
Corrosive Material UN1760			004	DF002.20	G	0002 H
c. X Waste Formaldehyde Solution						
ORM-A UN2209			001	DF000.55	G	0002 H
d. X Waste Hazardous Liquid NOS						
ORME NA 9189			001	DF000.15	G	0004 L N
16. Special Handling Instructions and Additional Information			K. Handling Codes for Wastes Listed Above			
Additional Descriptions for Wastes Listed Above			a. 1			
Mixed Residue of Copper and Nickel Sludge			b. 1			
Mixed Residue of Copper and Nickel Sludge			c. 1			
Mixed Residue of Copper and Nickel Sludge			d. 1			
18. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.						
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Printed/Typed Name			Signature		Date	
R. E. WALTERS			R. E. Walters		13 7 86	
17. Transporter 1 Acknowledgement of Receipt of Materials			Signature		Date	
Printed/Typed Name			Signature		Date	
Rick D. Richardson			Rick D. Richardson		3 17 86	
18. Transporter 2 Acknowledgement of Receipt of Materials			Signature		Date	
Printed/Typed Name			Signature		Date	
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.						
Printed/Typed Name			Signature		Date	

ALL SPI-11 BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY CENTER 1-800-252-4706 OR OUT OF STATE AT 817-373-7860 AND THE NATIONAL RESPONSE

3-424-8802 24 HOURS PER DAY

FACILITY

**DNR**  
**MICHIGAN DEPARTMENT**  
**OF NATURAL RESOURCES**

DO NOT WRITE IN THIS SPACE

ATT. ☐ DIS. ☐ REJ. ☐

Required under authority of Act 64, P.A. 1979, as amended and Act 136, P.A. 1986.

Failure to file is punishable under section 299.5 of MCL or Section 10 of Act 136, P.A.

**ORIGINAL**  
**(Red)**

Form Approved OMB No. 2000-0404 Expires 7-31-86

Case print or type

**UNIFORM HAZARDOUS**  
**WASTE MANIFEST**

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address  
TRANS CIRCUITS, INC.

3509 CARLYN SPRINGS ROAD, FALLS CHURCH, VA

4. Generator's Phone (703) 820-6405

5. Transporter 1 Company Name  
EASTERN CHEMICAL WASTE SYSTEMS

6. US EPA ID Number

DICD9810181218167

7. Transporter 2 Company Name  
EASTERN CHEMICAL WASTE SYSTEMS

8. US EPA ID Number

DICD98101035504

9. Designated Facility Name and Site Address  
CHEM MET SERVICES  
18550 ALLEN ROAD  
WYANDOTTE, MI 48192

10. US EPA ID Number

MI1010191619161311914

A. State Manifest Document Number

MI 0846118

B. State Generator's ID

same

C. State Transporter's ID

D. Transporter's Phone 202 636-9555

E. State Transporter's ID

F. Transporter's Phone 202 636-9555

G. State Facility's ID

H. Facility's Phone

313-282-9250

11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM

12. Containers

13. Total Quantity

14. Unit

1. Waste No.

2. N/A

a. Waste Hazardous Solids NOS  
ORME NA9189

004 D F 00220 G 029 L N

b. waste hazardous Liquids NOS  
ORME NA9189

002 D F 00110 G 004 L N

c. X waste Corrosive Liquids NOS  
Corrosive Material UN1760

004 D F 00180 G 002 H

d. X waste lead Chloride solution  
ORM-B NA 2291

001 D F 00055 G 002 H

Additional Descriptions for Materials Listed Above:

A. Acidic Aqueous Copper Soln  
B. Neutral Sludge (Copper Soln)  
C. Solid Waste (Copper Soln)

K. Handling Codes for Wastes

Listed Above

a/

b/

c/

d/

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transportation by highway according to applicable international and national government regulations.

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Printed/Typed Name

R. L. Walters

Signature

R. L. Walters

Date

Month Day Year

3 17 86

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Ricky D. Richardson

Signature

Ricky D. Richardson

Date

Month Day Year

3 17 86

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Date

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name

Signature

Date

Month Day Year

ALL SPILLS (BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY CENTER AT 1-800-424-8902 24 HOURS PER DAY.

1-800-292-4708 OR OUT OF STATE AT 517-373-7600 AND THE NATIONAL RESPONSE

IND SYSTEM, IN MICHIGAN

ORIGINAL  
(Red)UNIFORM HAZARDOUS  
WASTE MANIFEST

1. Generator's US EPA ID No.

V.A.D.0.4.1.9.6.2.0.3.6

Manifest  
Document No.

1.1.3.0.A

2. Page 1  
of 1Information in the shaded areas is  
not required by Federal law.

3. Generator's Name and Mailing Address

TRANS CIRCUITS INC.

3509 CARLYN SPRINGS RD. FALLS CHURCH, VA

4. Generator's Phone ( 703 ) 820-6405

LARRY MOCK c/o

A. State Manifest Document Number

1130 A

B. State Generator's ID

same

5. Transporter 1 Company Name

EASTERN CHEMICAL WASTE SYSTEMS

6. US EPA ID Number

D.C.D.9.8.0.8.2.8.8.6.7

C. State Transporter's ID

D. Transporter's Phone 202 636-9555

7. Transporter 2 Company Name

EASTERN CHEMICAL WASTE SYSTEMS

8. US EPA ID Number

D.C.D.9.8.1.0.3.5.5.0.4

E. State Transporter's ID

F. Transporter's Phone 202 636-9555

9. Designated Facility Name and Site Address

ENVIRONMENTAL ENTERPRISES, INC.

4650 SPRING GROVE AVENUE

CINCINNATI, OH 45232

10. US EPA ID Number

O.H.D.0.8.3.3.7.7.0.1.0

G. State Facility's ID

H. Facility's Phone

513 541-1823

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

HM

12. Containers

No.

Type

13. Total  
Quantity14. Unit  
Wt/Vol

Waste No.

a. Waste Sodium Chlorite Solution  
Oxidizer UN 1496

0.01

DM

0.0055 G

D003

b. Waste Flammable Solid NOS  
Flammable Solid UN 1325

0.01

DM

0.0055 G

D003

c. Waste Combustible Liquid NOS  
Combustible Liquid UN 1993

0.01

D.F

0.0055 G

D001

d. Waste Methylene Chloride  
ORMA UN 1593

0.01

DM

0.0055 G

F002

J. Additional Descriptions for Materials Listed Above

b. Sodium Hydroxide C. ink from screen  
washing

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

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Printed/Typed Name

R.L. WALTERS

Signature

R.L. Walters

Month Day Year

3 7 86

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Rick D. Richardson

Signature

Rick D. Richardson

Month Day Year

3 7 86

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name

Signature

Month Day Year

GENERATOR

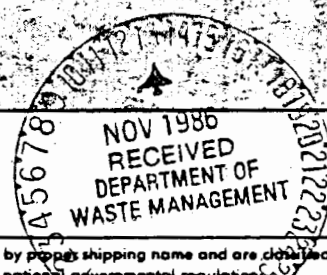
TRANSPORTER

FACILITY



ORIGINAL  
(Red)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. V.A.D.0.4.1.9.6.2.0.3.6	Manifest Document No. 1.1.3.0.5	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address LARRY MOCK c/o TRANS CIRCUITS INC. 3509 CARLYN SPRINGS RD, FALLS CHURCH, VA				A. State Manifest Document Number 1130 B		
4. Generator's Phone (703) 820-6405				B. State Generator's ID same		
5. Transporter 1 Company Name EASTERN CHEMICAL WASTE SYSTEMS		6. US EPA ID Number D.C.D.9.8.0.8.2.8.8.6.7		C. State Transporter's ID		
7. Transporter 2 Company Name EASTERN CHEMICAL WASTE SYSTEMS		8. US EPA ID Number D.C.D.9.8.1.0.3.5.5.0.4		D. Transporter's Phone 202 636-9555		
9. Designated Facility Name and Site Address ENVIRONMENTAL ENTERPRISES, INC. 4650 SPRING GROVE AVENUE CINCINNATI, OH 45232		10. US EPA ID Number O.H.D.0.8.3.3.7.7.0.1.0		E. State Transporter's ID		
				F. Transporter's Phone 202 636-9555		
				G. State Facility's ID		
				H. Facility's Phone 513 541-1823		
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)				12. Containers	13. Total Quantity	14. Unit
				No.	Type	Wt/Vol
a. Waste Alkaline Liquid NOS Corrosive Material NA1719				0.01	DF	0.0055 G
b. Waste Hazardous Liquids NOS ORAE NA9189				0.01	DF	0.0200 P
c. Waste Flammable Liquids NOS Flammable Liquids UN1993				0.01	DF	0.0200 P
d.						
J. Additional Descriptions for Materials Listed Above a. NH <sub>4</sub> OH, H <sub>2</sub> O <sub>2</sub> Additives b. Lab Packages c. Lab Packages				K. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations. Unless I am a small quantity generator who has been exempted by statute or regulation from the duty to make a waste minimization certification under Section 3002(h) of RCRA, I also certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and I have selected the method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment.						
Printed/Typed Name R.L. WALTERS				Signature R.L. Walters		Month Day Year 3 7 86
17. Transporter 1 Acknowledgement of Receipt of Materials						
Printed/Typed Name Rick D. Richardson				Signature Rick D. Richardson		Month Day Year 3 17 86
18. Transporter 2 Acknowledgement of Receipt of Materials						
Printed/Typed Name				Signature		Month Day Year
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.						
				Signature		Month Day Year





# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

V A D 0 4 1 9 6 2 0 3 6

Manifest Document No.

0 1 6 9 1

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address

MR. LARRY MOCK c/o

TRANS CIRCUITS

3509 CARLYN SPRINGS RD. FALLS CHURCH, VA

4. Generator's Phone ( 703 ) 820-6405

A. State Manifest Document Number

01691

B. State Generator's ID

SAME

C. State Transporter's ID

AT-XA23MG

D. Transporter's Phone

202 636-9555

E. State Transporter's ID

F. Transporter's Phone

202 636-9555

G. State Facility's ID

H. Facility's Phone

5 1 3 5 4 1 - 1 8 2 3

5. Transporter 1 Company Name

EASTERN CHEMICAL WASTE SYSTEMS

6. US EPA ID Number

D C D 9 8 0 8 2 8 8 6 7

7. Transporter 2 Company Name

EASTERN CHEMICAL WASTE SYSTEMS

8. US EPA ID Number

D C D 9 8 1 0 3 5 5 0 4

9. Designated Facility Name and Site Address

ENVIRONMENTAL ENTERPRISES INC.

4650 SPRING GROVE AVENUE

CINCINNATI, OH 45232

10. US EPA ID Number

O H D 0 8 3 3 7 7 0 1 0

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

12. Containers

No.

Type

13. Total Quantity

14. Unit Wt/Vol

1. Waste No.

a. ☒ Waste Hydrogen Peroxide Solution  
40-52% Oxidizer UN 2014

005 DF

0.0265 g

D001

b. ☒ Waste Flammable Liquid NOS  
Flammable Liquid UN 1993

002 DM

0.0110 g

D001

c. ☒ Waste Potassium Permanganate Solid  
Oxidizer UN 1490

001 DM

0.0200 P

D001

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above

b. Styrene, 1 drum with small amount of Acid

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

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Printed/Typed Name

SAMUEL C. ROWLAND

Signature

Samuel C Rowland

Month Day Year

05 30 86

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

JAMES KURT OVERBERGER

Signature

James Kurt Overberger

Month Day Year

05 30 86

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name

Signature

Month Day Year

# READ INSTRUCTIONS ON BACK OF MANIFEST



**MICHIGAN DEPARTMENT  
OF NATURAL RESOURCES**

**DO NOT WRITE IN THIS SPACE**  
ATT. ☐ DIS. ☐ REJ. ☐

ORIGINAL  
(Red)

Required under authority of Act 64, P.A. 1979, as amended and Act 136, P.A. 1969.

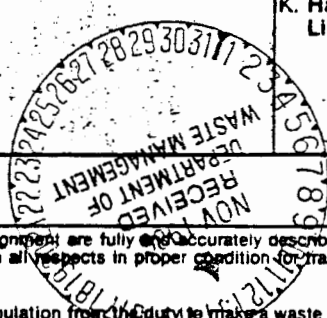
Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

I

Form Approved OMB No. 2000-0404 Expires 7-31-86

Print or type

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. VAD 04196203601692	Manifest Document No. 01692	2. Page 1 of 02	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address <b>TRANS CIRCUITS 3509 CARLYN SPRINGS RD. FALLS CHURCH, VA</b>			A. State Manifest Document Number <b>MI 0774391</b>		B. State Generator's ID <b>Same</b>	
4. Generator's Phone ( 703 ) 820-6405			6. US EPA ID Number <b>D C D 9 8 0 8 2 8 8 6 7</b>		C. State Transporter's ID <b>MI-XH83M6</b>	
5. Transporter 1 Company Name <b>EASTERN CHEMICAL WASTE SYSTEMS</b>			8. US EPA ID Number <b>D Q D 9 8 1 0 3 5 5 0 4</b>		D. Transporter's Phone <b>202 636-9555</b>	
7. Transporter 2 Company Name <b>EASTERN CHEMICAL WASTE SYSTEMS</b>			10. US EPA ID Number <b>M I D 0 9 6 9 6 3 1 9 4</b>		E. State Transporter's ID <b>202 636-9555</b>	
9. Designated Facility Name and Site Address <b>CHEM MET 18550 ALLEN ROAD WYANDOTTE, MI 48192</b>			12. Containers No. Type		13. Total Quantity	
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). <b>HM</b>			14. Unit M/Vol		1. Waste No. N/H	
X Waste Corrosive Liquid NOS Corrosive Liquid MATERIAL UN 1760			002 DF 0011 DG		D002 H	
X Waste Corrosive Liquid NOS Corrosive Liquid MATERIAL UN 1760			003 DF 00165 G		D002 H	
X Waste Ammonium Chloride / ORME NA 9085			002 DM 0011 D P		D002 H	
Waste Aluminum Sulfate Solid ORM-E NA 9078			002 DM 0011 D P		D029 L N	
J. Additional Descriptions for Materials Listed Above a. Mixed Acids, HCl, H <sub>2</sub> SO <sub>4</sub> b. HCl			K. Handling Codes for Wastes Listed Above		a/ / b/ / c/ / d/ /	
5. Special Handling Instructions and Additional Information						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.  Unless I am a small quantity generator who has been exempted by statute or regulation from the duty to make a waste minimization certification under Section 3002(b) of RCRA, I also certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and I have selected the method of treatment, storage or disposal currently available to me which minimizes the present and future threat to human health and the environment.						
Printed/Typed Name <b>Samuel C. Rowland</b>			Signature <i>Samuel C Rowland</i>		Date Month Day Year <b>6 15 1986</b>	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name <b>JAMES KURT OVERBERGER</b>			Signature <i>James Kurt Overberger</i>		Date Month Day Year <b>5 30 86</b>	
18. Transporter 2 Acknowledgement or Receipt of Materials Printed/Typed Name			Signature		Date Month Day Year	
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name						
Signature						
Date Month Day Year						



ALL BILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-282-4706 OR OUT OF STATE AT 617-373-7600 AND THE NATIONAL RESPONSE CENTER 1-800-424-9002 24 HOURS PER DAY.

ORIGINAL

(Red)

**UNIFORM HAZARDOUS  
WASTE MANIFEST  
(Continuation Sheet)**

21. Generator's US EPA ID No.

Manifest  
Document No.

22. Page

Information in the shaded areas is not  
required by Federal law.

V A D 0 4 1 9 6 2 0 3 6 0 1 6 9 1

OF 2

23. Generator's Name

MR. LARRY MOCK c/o

TRANS CIRCUITS

3509 CARLYN SPRINGS RD. FALLS CHURCH, VA

L. State Manifest Document Number

~~ME0774391~~

M. State Generator's ID

same

N. State Transporter's ID ~~NT-XH83M6~~

O. Transporter's Phone

P. State Transporter's ID

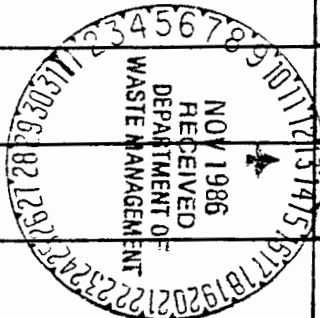
Q. Transporter's Phone

28. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

29. Containers

30.  
Total  
Quantity31.  
Unit  
Wt/VolR.  
Waste No.

HM	No	Type	Quantity	Wt/Vol	Waste No.
a. X	001	DM	00400	P	D002
Waste Stannous Chloride Solid ORM-B NA 1759					
b. X	001	DM	00400	P	D002
Waste Corrosive Solid NOS Corrosive Material UN 1759					
c. X	001	DM	00400	P	003D
Waste hazardous Solid NOS ORM-E NA 9189					
d. X	001	DM	00400	P	D002
Waste Corrosive Solid NOS Corrosive Material UN 1759					
e. X	001	DF	00055	G	D002
Waste Corrosive Liquid NOS Corrosive Liquid MATERIAL UN 1760					
f.					
g.					
h.					
i.					



S. Additional Descriptions for Materials Listed Above

b. Boric Acid Powder e. NaOH Sol.  
c. Nickel Carbonate  
d. Boric, Citric + Oxalic Acid powder.

T. Handling Codes for Wastes Listed Above

32. Special Handling Instructions and Additional Information

33. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Date

Month Day Year

Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Date

Month Day Year

35. Discrepancy Indication Space

GENERATOR'S

TRANSPORTER'S

FACILITY



**HAZARDOUS WASTE MANIFEST**  
Department of Health and Mental Hygiene  
Office of Environmental Programs

Waste Management Administration • Hazardous Waste Division  
P.O. Box 13387 • Baltimore, Maryland 21203

I

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2000-0404. Expires 7-31-86

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. VA D 0 4 1 9 6 2 0 3 6		Manifest Document No. 0 1 7 2 3		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.					
3. Generator's Name and Mailing Address TRANS CIRCUITS 3509 CARLYN SPRINGS RD. FALLS CHURCH, VA 4. Generator's Phone ( 703) 820-6405						A. State Manifest Document Number MDC 0098139							
5. Transporter 1 Company Name EASTERN CHEMICAL WASTE SYSTEMS						B. State Generator's ID same							
6. US EPA ID Number D C D 9 8 0 8 2 8 8 6 7						C. State Transporter's ID HWH AN 80129 DC 289							
7. Transporter 2 Company Name EASTERN CHEMICAL WASTE SYSTEMS						D. Transporter's Phone 202 636-9555							
8. US EPA ID Number D C D 9 8 1 0 3 5 5 0 4						E. State Transporter's ID HWH [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] DC [ ] [ ] [ ] [ ]							
9. Designated Facility Name and Site Address CAPITOL ASSAY LABS 2901-A WHITTINGTON AVENUE BALTIMORE, MD 21230						F. Transporter's Phone 202 636-9555							
10. US EPA ID Number M D D 1 0 8 9 8 1 5 3 1						G. State Facility ID H. Facility's Phone 3 0 1 - 5 2 5 - 2 2 0 0							
11. "S" DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)						12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol		1. Waste No.	
a. Waste Cyanide NCS Poison B UN1588						101 DM		55		G		P 0 3 0	
b.													
c.													
d.													
J. Additional Descriptions for Materials Listed Above						K. Handling Codes for Wastes Listed Above							
a. Haz. Code Physical State Specific Gravity Percentage 1 3 1 1.10 1000 GOLD CYANIDE						a. 1 1 1 1 1 1 1 1 c. 1 1 1 1 1 1 1 1							
b. Haz. Code Physical State Specific Gravity Percentage [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]						b. 1 1 1 1 1 1 1 1 d. 1 1 1 1 1 1 1 1							
15. Special Handling Instructions and Additional Information MD VEHICLE CERTIFICATION #81A - B29, MD-HWH #414, MD-PC #289													
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, and Maryland Statutes or Regulations. Unless I am a small quantity generator who has been exempted by statute or regulation from the duty to make a waste minimization certification under Section 3002(b) of RCRA, I also certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and I have selected the method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment.													
Printed/Typed Name Samuel Rowland						Signature Samuel Rowland		Month Day Year 10 10 1986					
17. Transporter 1 Acknowledgement of Receipt of Materials						Signature James Kurt Overberger		Date 10 10 1986					
18. Transporter 2 Acknowledgement of Receipt of Materials						Signature		Date					
Printed/Typed Name						Signature		Month Day Year					
19. Discrepancy Indication Space													
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						Date							
Printed/Typed Name						Signature		Month Day Year					

In case of an emergency or spill, immediately call the National Response Center at (800) 424-9300.

MDC 0098139



# READ INSTRUCTIONS ON BACK OF MANIFEST

**DNR**  
MICHIGAN DEPARTMENT  
OF NATURAL RESOURCES

DO NOT WRITE IN THIS SPACE  
ATT. ☐ DIS. ☐ REJ. ☐

ORIGINAL  
(1/100)

Required under authority of Act 64, P.A. 1978, as amended and Act 136, P.A. 1969.  
Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

Please print or type.

Form Approved OMB No. 2000-0404 Expires 7-31-86

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <b>VAD041962036</b>		Manifest Document No. <b>011728</b>		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.		
3. Generator's Name and Mailing Address <b>TRANS CIRCUITS 3509 CARLYN SPRINGS RD. FALLS CHURCH, VA</b>						A. State Manifest Document Number <b>MI 0878411</b>				
4. Generator's Phone ( 703 ) <b>820-6845</b>						B. State Generator's ID <b>SAME</b>				
5. Transporter 1 Company Name <b>EASTERN CHEMICAL WASTE SYSTEMS</b>				6. US EPA ID Number <b>DCD980828867</b>		C. State Transporter's ID <b>MI-XH83M6</b>				
7. Transporter 2 Company Name <b>EASTERN CHEMICAL WASTE SYSTEMS</b>				8. US EPA ID Number <b>DCD981035504</b>		D. Transporter's Phone <b>202 636-9555</b>				
9. Designated Facility Name and Site Address <b>CHEM MET 18550 ALLEN ROAD WYANDOTTE, MI 48192</b>						E. State Transporter's ID				
10. US EPA ID Number <b>MID096963194</b>						F. Transporter's Phone <b>202 636-9555</b>				
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). <b>HM</b>						12. Containers No. Type		13. Total Quantity	14. Unit M/Vol	I. Waste No. N/H
a. <b>X</b> Waste Alkaline Liquid W05 Corrosive Material H1719						05 DM		275 G	P 0 0 2	E
b.										
c.										
d.										
J. Additional Descriptions for Materials Listed Above <b>a. Copper Ammonium Chloride Sludge / CLEANUP DEPOS.</b>						K. Handling Codes for Wastes Listed Above		a/ /	b/ /	c/ /
								d/ /		
15. Special Handling Instructions and Additional Information										
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.  Unless I am a small quantity generator who has been exempted by statute or regulation from the duty to make a waste minimization certification under Section 3002(b) of RCRA, I also certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and I have selected the method of treatment, storage or disposal currently available to me which minimizes the present and future threat to human health and the environment.										
Printed/Typed Name <b>Samuel Rowland</b>						Signature <i>Samuel Rowland</i>		Date Month Day Year <b>11/15/86</b>		
17. Transporter 1 Acknowledgement of Receipt of Materials						Signature <i>James Kurt Overberger</i>		Date Month Day Year <b>060586</b>		
Printed/Typed Name <b>JAMES KURT OVERBERGER</b>						Signature		Date		
18. Transporter 2 Acknowledgement of Receipt of Materials						Signature		Date		
Printed/Typed Name						Signature		Date		
19. Discrepancy Indication Space										
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.										
Printed/Typed Name						Signature		Date Month Day Year		

ALL SPILLS & REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERT SYSTEM, IN MICHIGAN 24 HOURS PER DAY. 24-8002 24 HOURS PER DAY.

ORIGINAL  
(Red)UNIFORM HAZARDOUS  
WASTE MANIFEST

1. Generator's US EPA ID No.

V.A.D.04.1.9.6.2.0.3.6

Manifest  
Document No.

01752

2. Page 1  
ofInformation in the shaded areas is  
not required by Federal law.

3. Generator's Name and Mailing Address

TRANS CIRCUITS

3509 CARLYN SPRINGS RD, FALLS CHURCH, VA 22041

4. Generator's Phone ( 703 )820-6405

MR. LARRY MOCK c/o

A. State Manifest Document Number

01752

B. State Generator's ID

same

5. Transporter 1 Company Name

EASTERN CHEMICAL WASTE SYSTEMS

6. US EPA ID Number

D.C.D.9.8.0.8.2.8.8.6.7

C. State Transporter's ID

D. Transporter's Phone

202 636-9555

7. Transporter 2 Company Name

EASTERN CHEMICAL WASTE SYSTEMS

8. US EPA ID Number

D.C.D.9.8.1.0.3.5.5.0.4

E. State Transporter's ID

F. Transporter's Phone

202 636-9555

9. Designated Facility Name and Site Address

ENVIRONMENTAL ENTERPRISES INC.

4650 SPRING GROVE AVENUE

CINCINNATI, OH 45232

10. US EPA ID Number

O.H.D.0.8.3.3.7.7.0.1.0

G. State Facility's ID

H. Facility's Phone

513 541-1823

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

HM

12. Containers

No.

Type

13. Total  
Quantity14. Unit  
Wt/Vol

1. Waste No.

X

Waste Sodium chlorite  
Oxidizer UN1496

003

CF  
DM

165

G

D001

b.

X

~~Waste Nitric Acid, fuming~~  
Waste Corrosive Liquid W05  
Corrosive Liquid  
Oxidizer UN2032

006

DM

330

G

D002

c.

X

Waste Hydrogen Peroxide Solution  
Oxidizer UN2014

006

DM

330

G

D001

d.

X

Waste Phosphoric Acid  
Corrosive Material UN1805

DM

G

D002

J. Additional Descriptions for Materials Listed Above

a. Black Oxide/Sodium Chlorite Solid  
b. Sodium hypochlorite and Sodium Chlorite (solid)  
d. Phosphoric Acid, Organics & Dye

K. Handling Codes for Wastes Listed Above

a. T

b. T

c. T

d. T

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

Unless I am a small quantity generator who has been exempted by statute or regulation from the duty to make a waste minimization certification under Section 3002(b) of RCRA, I also certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and I have selected the method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment.

Printed/Typed Name

LARRY D. MOCK

Signature

Larry D. Mock

Month Day Year

10/6/10/86

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

ALBERT B. SMITH

Signature

Al Smith

Month Day Year

10/6/10/86

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

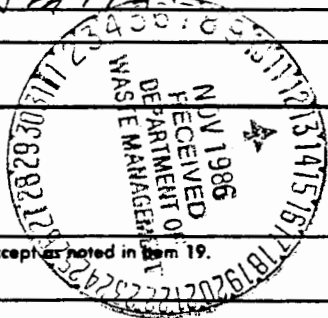
19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name

Signature

Month Day Year



ORIGINAL  
(Red)

**UNIFORM HAZARDOUS  
WASTE MANIFEST**  
(Continuation Sheet)

21. Generator's US EPA ID No.

Manifest  
Document No.

22. Page

Information in the shaded areas is not  
required by Federal law.

V-A-D-041962036 01752

2 of 2

23. Generator's Name

MR. LARRY MOCK c/o

TRANS CIRCUITS

3509 CARLYN SPRINGS RD, FALLS CHURCH, VA 22041

L. State Manifest Document Number

01752

M. State Generator's ID

same

24. Transporter Company Name

25. US EPA ID Number

N. State Transporter's ID

O. Transporter's Phone 202 636 9335

26. Transporter Company Name

27. US EPA ID Number

P. State Transporter's ID

Q. Transporter's Phone

28. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

29. Containers

30. Total  
Quantity

31. Unit  
Wt/Vol

R. Waste No.

HM

a. X

~~Waste Hazardous Liquid NOS~~  
~~ORM-E NA9189~~

~~DM~~

~~0 D001~~

b. X

Waste Acid Liquid NOS  
Corrosive material NA1760

003 DM

600 P

D002

c. X

Waste oxidizer NOS  
Oxidizer NA1479

001 DM

200 P

D001

d.

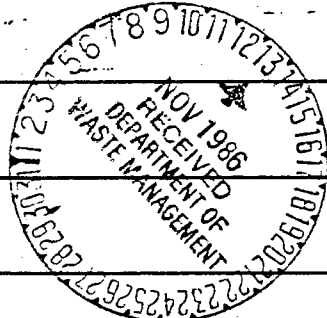
e.

f.

g.

h.

i.



5. Additional Descriptions for Materials Listed Above

T. Handling Codes for Wastes Listed Above

a. ~~Lab Pack-Glycol Ether & Surfactants in Oil Base~~

See attached Inventories

~~A) B~~  
B) T  
C) B

32. Special Handling Instructions and Additional Information

CONTINUATION SHEET ONLY TO ACCOMMODATE ADDITIONAL LINE ITEMS.

33. Transporter Acknowledgement of Receipt of Materials

Date

Printed/Typed Name

Signature

Month Day Year

34. Transporter Acknowledgement of Receipt of Materials

Date

Printed/Typed Name

Signature

Month Day Year

35. Discrepancy Indication Space

TRANS  
PORTER  
FACILITY

**DNR**  
**MICHIGAN DEPARTMENT**  
**OF NATURAL RESOURCES**

DO NOT WRITE IN THIS SPACE

ATT. ☐ DIS. ☐ REJ. ☐

Required under authority of Act 64, P.A. 1979, as amended and Act 136, P.A. 1969.

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

Please print or type

Form Approved OMB No. 2000-0404 Expires 7-31-86

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. VA D 041962036		Manifest Document No. 0175		2 Page 1 of 1		Information in the shaded areas is not required by Federal law									
3. Generator's Name and Mailing Address <b>TRANS CIRCUITS</b> <b>3509 CARLYN SPRINGS RD, FALLS CHURCH, VA 22041</b>						A. State Manifest Document Number <b>MI 0878420</b>											
4. Generator's Phone ( 703 ) <b>820-6405</b>						B. State Generator's ID <b>8206</b>											
5. Transporter 1 Company Name <b>EASTERN CHEMICAL WASTE SYSTEMS</b>				6. US EPA ID Number <b>DC D 980828867</b>		C. State Transporter's ID <b>61712-N</b>											
7. Transporter 2 Company Name <b>EASTERN CHEMICAL WASTE SYSTEMS</b>				8. US EPA ID Number <b>DC D 981035504</b>		D. Transporter's Phone <b>202 636-9555</b>											
9. Designated Facility Name and Site Address <b>CHEM MET</b> <b>18550 ALLEN ROAD</b> <b>WYANDOTTE, MI 48192</b>						E. State Transporter's ID											
10. US EPA ID Number <b>MI D 096963194</b>						F. Transporter's Phone <b>202 636-9555</b>											
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER)						12. Containers No. Type		13. Total Quantity		14. Unit Mt/Vol		15. Waste No. N/H					
a. <b>X</b> Waste Sodium Hydroxide Solution Corrosive Material UN1824						002 DF		1111 Dg		0002		H					
b. <b>X</b> Waste Hazardous Liquid NOS ORM-K RA9189						001 DF		45		001		H					
c. <b>X</b> Waste Acid Liquid NOS Corrosive Material UN1760 <i>microetch</i>						005 DF		1275		0002		H					
d. <del>Waste Corrosive Liquid NOS Corrosive Material UN1760</del>																	
J. Additional Descriptions for Materials Listed Above a. 10-20% NaOH b. Copper Sulfate Solution c. Mixed Acids-HCl Sulfuric Acid - <i>55 gal drums</i> d. <del>Chloride &amp; other salts</del>						K. Handling Codes for Wastes Listed Above a. <b>X</b> b. <b>X</b> c. <b>X</b> d. <b>X</b>											
15. Special Handling Instructions and Additional Information																	
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.  Unless I am a small quantity generator who has been exempted by statute or regulation from the duty to make a waste minimization certification under Section 3002(b) of RCRA, I also certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and I have selected the method of treatment, storage or disposal currently available to me which minimizes the present and future threat to human health and the environment.																	
Printed/Typed Name <i>ANTONIO D. CAIN</i>						Signature <i>Antonio D. Cain</i>				Date Month Day Year <i>06/12/86</i>							
17. Transporter 1 Acknowledgement of Receipt of Materials						Printed/Typed Name <i>Fred Hoffman</i>				Signature <i>Fred Hoffman</i>				Date Month Day Year <i>06/12/86</i>			
18. Transporter 2 Acknowledgement of Receipt of Materials						Printed/Typed Name <i>Antonio D. Cain</i>				Signature <i>Antonio D. Cain</i>				Date Month Day Year <i>06/12/86</i>			
19. Discrepancy Indication Space																	
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest excepted in Item 19.																	
Printed/Typed Name <i>J. HERVEY</i>						Signature <i>J. Hervey</i>				Date Month Day Year <i>06/14/86</i>							

ALL INFORMATION REPORTED TO THE MICHIGAN POLLUTION EMERGENCY CENTER AT 1-800-424-6902 24 HOURS PER DAY.

ALL INFORMATION REPORTED TO THE MICHIGAN POLLUTION EMERGENCY CENTER AT 1-800-424-6902 24 HOURS PER DAY.

**UNIFORM HAZARDOUS  
WASTE MANIFEST**  
(Continuation Sheet)

21. Generator's US EPA ID No.

Manifest  
Document No.

22. Page

Information in the shaded areas is not  
required by Federal law.

V.A.D.041962036 001751

23. Generator's Name

MR. LARRY MOCK c/o

L. State Manifest Document Number

MI 0878420

TRANS CIRCUITS

3509 CARLYN SPRINGS RD, FALLS CHURCH, VA 22041

M. State Generator's ID

W-880

24. Transporter Company Name

25. US EPA ID Number

N. State Transporter's ID

Eastern Chemical Waste DC0980828867  
Systems

O. Transporter's Phone

P. State Transporter's ID

Q. Transporter's Phone

28. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

29. Containers  
No Type

30.  
Total  
Quantity

31.  
Unit  
Wt/Vol

32.  
Waste No.

X Waste Sulfuric Acid  
Corrosive Material UN1830

001 DM 15 G D 002 H

X Waste Corrosive Liquid NOS  
Corrosive Material UN1760

SP274

005 DF 275 G D 002 H

~~Waste Formaldehyde Solution~~  
~~UN1228~~

~~DM 1 G D 001 H~~

~~Waste Nickel Chloride~~  
~~UN1228~~

~~DM 1 G D 001 H~~

X Waste Alkaline Liquid NOS  
Corrosive Material UN1719

SNP62002

005 DF 275 G D 002 H

~~Waste Potassium Hydroxide Solution~~  
~~Corrosive Material UN1814~~

~~DM 1 G D 002 H~~

X Waste Acid Liquid NOS  
Corrosive Material UN1760

001 DF 55 G D 002 H

5. Additional Descriptions for Materials Listed Above

e) Sodium hydroxide with tin and lead  
caustic potash, monoethanolamine  
b. Butyl Carbitol, Pot-ash, 1-methoxyethanol, amine  
c. Diethanolamine f. FOR use in Butoxyethanol and amine  
g. Sulfonic acid salts, surfactants, and water mixed acids and Gold (trace)

T. Handling Codes for Wastes Listed Above

a) T 6-T  
b) T  
c) T

32. Special Handling Instructions and Additional Information

CONTINUATION SHEET ONLY TO ACCOMMODATE ADDITIONAL LINE ITEMS.

33. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Date

Fred Hoffman

Fred Hoffman

Month Day Year

06/08/86

34. Transporter Acknowledgement of Receipt of Materials

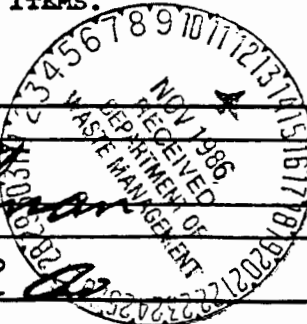
Printed/Typed Name

Signature

Month Day Year

06/12/86

35. Discrepancy Indication Space



# UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)

21. Generator's US EPA ID No.

Manifest  
Document No.

22. Page

Information in the shaded areas not  
required by Federal law.

VAD04196203601751

3 of 4

23. Generator's Name

Trans Circuits  
3509 Carlyn Springs Rd  
Falls Church Va  
22041  
(703) 820-6405

L. State Manifest Document Number

MI 0878420

M. State Generator's ID

SAME

24. Transporter Company Name

Eastern Chemical Systems  
Waste Systems

25. US EPA ID Number

DCD980828867

N. State Transporter's ID

O. Transporter's Phone

P. State Transporter's ID

Q. Transporter's Phone

28. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

29. Containers

No

Type

30. Total  
Quantity

31. Unit  
Wt/Vol

R. Waste No.

X	X	Waste Corrosive Liquid NOS Corrosive material UN1760	002	DF	30	G	D002
X	X	Waste Acid Liquid NOS Corrosive material NA1760	002	DF	10	G	D002
X	X	Waste Corrosive Liquid NOS Corrosive material UN1760	002	CF	11	G	D002
X	X	Waste Corrosive Liquid NOS Corrosive material UN1760	002	CF	2.75	G	D002
X	X	Waste combustible Liquid NOS Combustible material NA1993	001	DM	5	G	D001
X	X	Waste Corrosive Liquid NOS Corrosive material UN1760	001	DF	5	G	D002
X	X	Dynachem LAC-4100 now regulated Liquid waste	001	DF	5	G	029L
X	X	Waste Combustible Liquid NOS Combustible liquid NA1993	001	CF	10	G	D001
		Scrub Cleaner II now regulated Solid waste	001	CF	20	P	NONE

5. Additional Descriptions for Materials Listed Above

1) mixed acids HCl & H<sub>2</sub>SO<sub>4</sub> 2) Surfactants 3) Cleaner w/putty  
4) Pre etch 17p Sulfuric Acid 5) Surfactants 6) T DIT P) T H) T  
7) Aluminum Chloride & Acetic Acid Soln 8) Surfactants 9) Cleaner w/putty  
10) Mix acids 11) Surfactants 12) Cleaner w/putty

32. Special Handling Instructions and Additional Information

a) DOT 12 B 30 b) DOT 2 6787 (see MSDS)  
c) DOT 2 6787 d) DOT 17 C  
e) DOT 12 P 80 f) DOT 34-5

33. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name  
Fred Hoffman

Signature  
Fred Hoffman

Date

Month Day Year  
06/10/86

34. Transporter Acknowledgement of Receipt of Materials

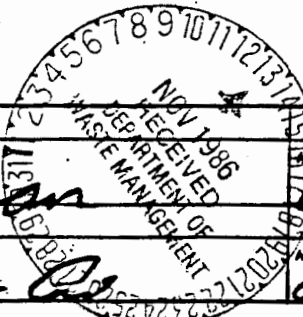
Printed/Typed Name  
Antonio D. Carr

Signature  
Antonio D. Carr

Date

Month Day Year  
06/12/86

35. Discrepancy Indication Space





# UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)

21. Generator's US EPA ID No.

Manifest  
Document No.

22. Page

Information in the shaded areas not  
required by Federal law.

VA004196203601751

4 of 4

23. Generator's Name

Trans Circuits  
3529 Carlyns Springs  
Falls Church Va 22041

(703) 820 6405

L. State Manifest Document Number

MI 0875420

ORIGINAL  
(Red)

M. State Generator's ID

SAME

24. Transporter Company Name

Eastern Chemical Waste  
System

25. US EPA ID Number

DCD980828867

N. State Transporter's ID

15 TIP-NJ

O. Transporter's Phone

202-636-9555

26. Transporter Company Name

27. US EPA ID Number

P. State Transporter's ID

Q. Transporter's Phone

28. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)

29. Containers

30. Total  
Quantity

31. Unit  
Wt/Vol

R. Waste No.

HM		No	Type				
a.	Waste Alkaline Liquid NOS						
X	Corrosive Material NA17A	001	DF	55	G	0002	H
b.	Waste Acid Liquid NOS						
X	Corrosive Material NA1760	002	DF	110	G	0002	H
c.	Waste Acid Liquid NOS						
X	Corrosive Material NA1760	002	DF	110	G	0002	H
d.	Waste Acid Liquid NOS						
X	Corrosive Material NA1760	001	DF	55	G	0002	H
e.	Waste Corrosive Liquid NOS						
X	Corrosive Material NA1760	001	DM	75	G	0002	H
f.	MICRO-BRITE Cleaning Solution						
	Non-Regulated Liquid Waste	014	DF	70	G	0294	N
g.							
h.							
i.							

5. Additional Descriptions for Materials Listed Above

- a) mixed hydroxides in Soln
- b) mixed acids mostly HCl and H2SO4 (MASO)
- c) Micro Clean 100 Acid Cleaning Soln

6. Handling Codes for Wastes Listed Above

- A) T
- B) T
- C) T
- D) T
- E) T
- F) T

32. Special Handling Instructions and Additional Information

- D) MS 220 mixed acid HCl and Sulfuric
- E) mixed acid Etching Soln HCl and Sulfuric micro Etch

33. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name  
Fred Hoffman

Signature  
Fred Hoffman

Date

Month Day Year  
06/08/86

34. Transporter Acknowledgement of Receipt of Materials

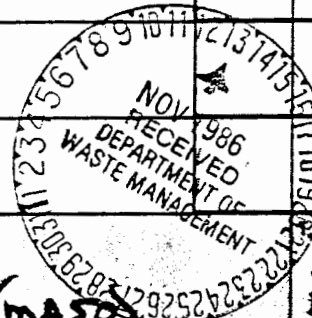
Printed/Typed Name  
Antonio R. Carr

Signature  
Antonio R. Carr

Date

Month Day Year  
06/12/86

35. Discrepancy Indication Space



# READ INSTRUCTIONS ON BACK OF MANIFEST

## **DNR** **MICHIGAN DEPARTMENT** **OF NATURAL RESOURCES**

DO NOT WRITE IN THIS SPACE  
 ATT. ☐ DIS. ☐ REJ. ☒

Required under authority of Act 64, P.A. 1979, as amended and Act 136, P.A. 1969.

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

**I**

Please print or type

Form Approved OMB No. 2000-0404 Expires 7-31-86

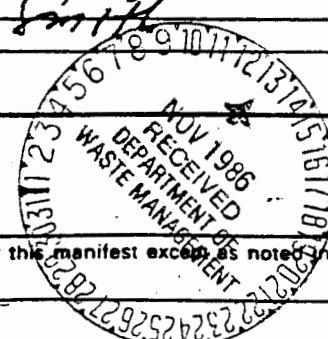
UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address <b>Trans Circuits</b> <b>3509 Carlyn Springs Rd</b> <b>22041</b>		4. Generator's Phone <b>(703) 820 6405</b>		A. State Manifest Document Number <b>MI 0878421</b>		
5. Transporter 1 Company Name <b>Eastern Chemical Waste Svc</b>		6. US EPA ID Number <b>PCD980828867</b>		C. State Transporter's ID <b>MSXH172MC</b>		
7. Transporter 2 Company Name <b>Eastern Chemical Waste Svc</b>		8. US EPA ID Number <b>PCD981035504</b>		E. State Transporter's ID		
9. Designated Facility Name and Site Address <b>Chem Met</b> <b>18550 Allen Road</b> <b>Wyandotte Michigan</b>		10. US EPA ID Number <b>MD096963194</b>		G. State Facility's ID		
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER)		12. Containers		13. Total Quantity	14. Unit	15. Waste No. N/H
a. <b>X waste oil combustible liquid</b> <b>NA1270</b>		<b>201 DM</b>		<b>200 P</b>	<b>0001 H</b>	
b. <b>waste Solid Substance</b> <b>Non Regulated</b>		<b>001 DF</b>		<b>25 P</b>		<b>N</b>
c. <b>waste Solid Substance</b> <b>Non Regulated</b>		<b>001 CF</b>		<b>5 P</b>		<b>N</b>
d. <b>X waste Corrosive Solid</b> <b>Corrosive material UN1759</b>						
J. Additional Descriptions for Materials Listed Above				K. Handling Codes for Wastes Listed Above		
b) Alumafloc Anionic poly electrolyte				a/ /		
c) detergent				b/ /		
				c/ /		
				d/ /		
15. Special Handling Instructions and Additional Information <b>weights are approx</b>						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.						
Unless I am a small quantity generator who has been exempted by statute or regulation from the duty to make a waste minimization certification under Section 3002(b) of RCRA, I also certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and I have selected the method of treatment, storage or disposal currently available to me which minimizes the present and future threat to human health and the environment.						
Printed/Typed Name <b>LARRY D. Mock</b>		Signature <b>Larry D. Mock</b>		Date <b>06/11/86</b>		
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed/Typed Name <b>ALBERT SMITH</b>		Signature <b>Albert Smith</b>		Date <b>06/11/86</b>
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed/Typed Name		Signature		Date
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.						
Printed/Typed Name		Signature		Date Month Day Year		

1-800-292-4706 OR OUT OF STATE AT 517-373-7000 AND THE NATIONAL RESPONSE

TING SYSTEM, IN MICHIGAN

1 BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY CENTER AT 424-8802 24 HOURS PER DAY.

ALL SPILLS CENTER AT





ORIGINAL  
(Red)

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)		21. Generator's US EPA ID No.	Manifest Document No.	22. Page	Information in the shaded areas is not required by Federal law.	
23. Generator's Name Trans Circuits 3509 Carolyn Springs Rd Falls Church Va 22041		21. Generator's US EPA ID No. VAD04196203691772	Manifest Document No. 7038206405 LARRY MOCK	22. Page 2052	L. State Manifest Document Number 01772	
24. Transporter Company Name Eastern Chemical Waste Systems		25. US EPA ID Number DCD990929867	N. State Transporter's ID		O. Transporter's Phone 202 636 9535	
26. Transporter Company Name Eastern Chemical Waste Systems		27. US EPA ID Number DCD981035504	P. State Transporter's ID		Q. Transporter's Phone 202 636 9535	
28. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		29. Containers	30. Total Quantity	31. Unit Wt/Vol	R. Waste No.	
a. waste Corrosive Solid NOS Corrosive material unit 58		No. 002 OF	800 P		D002	
b.						
c.						
d.						
e.						
f.						
g.						
h.						
i.						
31. Additional Descriptions for Materials Listed Above a) Copper Sulfate tank Bottoms			T. Handling Codes for Wastes Listed Above			
32. Special Handling Instructions and Additional Information ONE Drum Contains only residue						
33. Transporter Acknowledgement of Receipt of Materials				Date		
Printed/Typed Name ALBERT SMITH		Signature Albert Smith		Month Day Year 06/1/86		
34. Transporter Acknowledgement of Receipt of Materials				Date		
Printed/Typed Name		Signature		Month Day Year		
35. Discrepancy Indication Space						

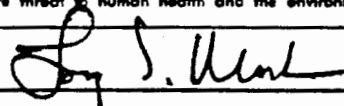
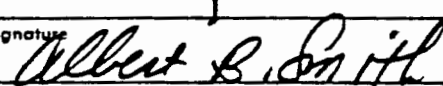


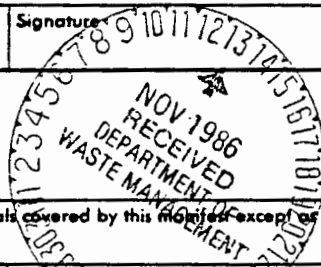
GENERATOR

TRANSPORTER

FACILITY

Please print or type in ink.  
 (Handwritten entries are not acceptable.)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 2	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address <b>Trans Circuits</b> <b>3509 Carlyn Springs Rd</b>		<b>LARRY Mock</b>		A. State Manifest Document Number <b>01759</b>		
4. Generator's Phone (703) <b>820-6405</b>		<b>Falls Church Va 22041</b>		B. State Generator's ID <b>SAME</b> (ed)		
5. Transporter 1 Company Name <b>Eastern Chemical Waste Systems</b>		6. US EPA ID Number <b>DCD 980828867</b>		C. State Transporter's ID		
7. Transporter 2 Company Name <b>Eastern Chemical Waste Systems</b>		8. US EPA ID Number <b>DCD 981035309</b>		D. Transporter's Phone <b>202 636 9553</b>		
9. Designated Facility Name and Site Address <b>Environmental Enterprises</b> <b>4650 Spring Grove Ave</b> <b>Cincinnati OH 45232</b>		10. US EPA ID Number <b>OH 0833 77010</b>		E. State Transporter's ID		
				F. Transporter's Phone <b>202 636 9553</b>		
				G. State Facility's ID		
				H. Facility's Phone <b>513 541 1823</b>		
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)				12. Containers	13. Total Quantity	14. Unit Wt/Vol
				No.	Type	Waste No.
a. <del>Waste Combustible Liquid NOS</del> <del>Combustible Liquid NA1995</del>						
b. <input checked="" type="checkbox"/> Waste Charcoal Ground Flammable Solid NA1361				602 DM	500 P	D001
c. <input checked="" type="checkbox"/> Waste Corrosive Liquid NOS Corrosive material UN1760				602 DM	400 P	D002
d. <input checked="" type="checkbox"/> Waste Corrosive Liquid Poisonous Corrosive material UN2992				601 DM	200 P	P030
J. Additional Descriptions for Materials Listed Above  Items C & D are Laboratory packaged Chemicals See Attached Inventory				K. Handling Codes for Wastes Listed Above <b>B</b> <b>S</b> <b>T</b> <b>D</b>		
15. Special Handling Instructions and Additional Information  All weight are approx						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.  Unless I am a small quantity generator who has been exempted by statute or regulation from the duty to make a waste minimization certification under Section 3002(b) of RCRA, I also certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and I have selected the method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment.						
Printed/Typed Name <b>LARRY D. Mock</b>		Signature 		Month Day Year <b>06/11/86</b>		
17. Transporter 1 Acknowledgement of Receipt of Materials						
Printed/Typed Name <b>ALBERT SMITH</b>		Signature 		Month Day Year <b>06/11/86</b>		
18. Transporter 2 Acknowledgement of Receipt of Materials						
Printed/Typed Name		Signature		Month Day Year		
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						
Printed/Typed Name		Signature		Month Day Year		



UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator's US EPA ID No.	Manifest Document No.	22. Page	Information in the shaded areas is not required by Federal law.
	VA D04196203601759		2 of 2	

23. Generator's Name	LARRY MICK 703 820 6905	L. State Manifest Document Number	01789 ORIGINAL (Red)
Trans Circuits 3509 Carlyn Springs Rd Falls Church Va 22041		M. State Generator's ID	SAME
24. Transporter Company Name	25. US EPA ID Number	N. State Transporter's ID	
Eastern Chemical Waste Systems DCD 9510 35504	0950828867	O. Transporter's Phone	202 636 9555
26. Transporter Company Name	27. US EPA ID Number	P. State Transporter's ID	
Eastern Chemical Waste Systems DCD 9510 35504		Q. Transporter's Phone	202 636 9555

28. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		29. Containers		30. Total Quantity	31. Unit Wt/Vol	R. Waste No.
HM		No	Type			
a.	Waste Liquid Substance NOS Non regulated waste	001	DM	200	P	NONE
b.	Waste Combustible Liquid NOS Combustible material NA1493	005 <del>004</del>	DM	1000 <del>200</del>	P	D001
c.	Waste Alkaline Liquid NOS Corrosive material NA1719	001	DM	200	P	D002
d.	Waste Acid Liquid NOS Corrosive material NA1760	001	DM	200	P	D002
e.	<del>Waste oxidizer NOS oxidizer</del>					
f.	Waste sodium nitrate oxidizer UN1498	002	DF	150	P	D001
g.	Waste oxidizer Corrosive Liquid NOS Oxidizer NA9193	001	DM	200	P	D001
h.						
i.						

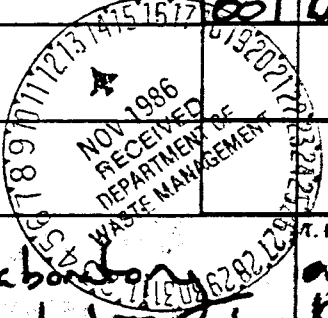
5. Additional Descriptions for Materials Listed Above	7. Handling Codes for Wastes Listed Above						
All Items except F are laboratory packaged chemicals See Attached Inventory	<table> <tr><td>DT</td><td>DT</td></tr> <tr><td>BB</td><td>FB</td></tr> <tr><td>ST</td><td>GB</td></tr> </table>	DT	DT	BB	FB	ST	GB
DT	DT						
BB	FB						
ST	GB						

32. Special Handling Instructions and Additional Information

All weights are approx

33. Transporter Acknowledgement of Receipt of Materials	Date
Printed/Typed Name ALBERT SMITH	Month Day Year 06/1/86
Signature Albert Smith	
34. Transporter Acknowledgement of Receipt of Materials	Date
Printed/Typed Name	Month Day Year
Signature	

35. Discrepancy Indication Space



**UNIFORM HAZARDOUS  
WASTE MANIFEST**

1. Generator's US EPA ID No.

V.A.D.0.4.1.9.6.2.0.3.6

Manifest  
Document No.

0.1.8.6.3

2. Page 1  
of 1Information in the shaded areas is  
not required by Federal law.

3. Generator's Name and Mailing Address

MR. LARRY MOCK c/o

TRANSCIRCUITS

3509 CARLYN SPRINGS RD, FALLS CHURCH, VA 22041

4. Generator's Phone ( 703 )

820-6405

5. Transporter 1 Company Name

EASTERN CHEMICAL WASTE SYSTEMS

6. US EPA ID Number

D.C.D.9.8.0.8.2.8.8.6.7

7. Transporter 2 Company Name

EASTERN CHEMICAL WASTE SYSTEMS

8. US EPA ID Number

D.C.D.9.8.1.0.3.5.5.0.4

9. Designated Facility Name and Site Address

ENVIRONMENTAL ENTERPRISES INC.

4650 SPRING GROVE AVENUE

CINCINNATI, OH 45232

10. US EPA ID Number

O.H.D.0.8.3.3.7.7.0.1.0

A. State Manifest Document Number

01863

B. State Generator's ID

Same

C. State Transporter's ID

NJ-X483MS

D. Transporter's Phone 202 636-9555

E. State Transporter's ID

F. Transporter's Phone 202 636-9555

G. State Facility's ID

H. Facility's Phone

513 541-1823

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

HM

a. X Waste Nitric Acid, fuming  
Oxidizer UN2032

12. Containers

No.

Type

13. Total  
Quantity14. Unit  
Wt/VolL  
Waste No.

01

DM

55

G

D001

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

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Printed/Typed Name

Samuel Rowland

Signature

Samuel Rowland

Month Day Year

10 10 3088

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

James Kurt Overberger

Month Day Year

10 10 3086

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year